
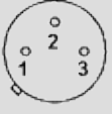

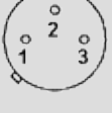
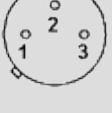
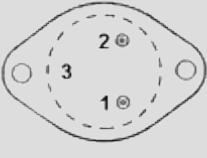



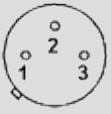
Transistor identificar, FET, SCR e conexões

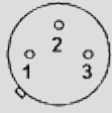
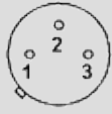
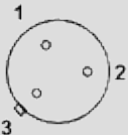

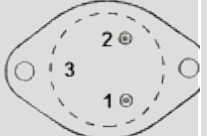
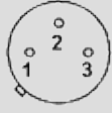
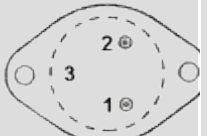
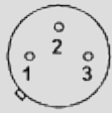

## Vários Semicondutores

REFERÊNCIA	EQUIVALENTE	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N</a> PNP Silício	=MMBT 404A	=MMBT 404A SMD		Sem Pinout
<a href="#">2N02L</a> MOS FET Canal N	=MMFT 2N02EL	=MMFT 2N02EL SMD		1 → 2 → 3 → 4 →
<a href="#">2N100</a> NPN Germânio	AC 127, ASY 28...29, 2SD30	25V, 5mA, 0,025W Audio / RF		1 → E 2 → B 3 → C 4 →

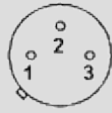


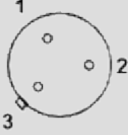

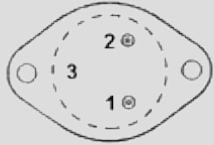

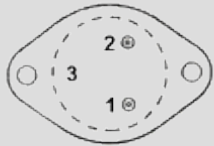
<a href="#">2N1000</a>	-	40V, 0,15W, >7MHz		1 → E 2 → B 3 → C 4 →
NPN Germânico		Audio / chaveamento		
<a href="#">2N1003</a>	AF 124...127, AF 200	35V, 0,12W, RF		1 → E 2 → B 3 → C 4 →
PNP Germânico				
<a href="#">2N1004</a>	AF 124...127, AF 200	35V, 0,12W, RF		1 → E 2 → B 3 → C 4 →
PNP Germânico				
<a href="#">2N1005</a>	BC 168, BC 183, BC 238, BC 548	15V, 0,025A, 0,15W, B>20		1 → E 2 → B 3 → C 4 →
NPN Silício		Uso geral		
<a href="#">2N1006</a>	BC 168, BC 183, BC 238, BC 548	=2N1005, B>45		1 → E 2 → B 3 → C 4 →
NPN Silício		Uso geral		
<a href="#">2N1007</a>	AD 149, AUY 19...20, 2N1529...48	40V, 3A, 30W		1 → E 2 → B 3 → C 4 →
PNP Germânico		Audio / potência		
<a href="#">2N1008</a>	AC 125...126, AC 151, 2N1191...94	20V, 0,3A, 0,2W		1 → E 2 → B 3 → C 4 →
PNP Germânico		Audio / chaveamento		

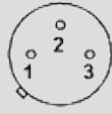
« Anterior [23456789](#) ... [588589](#) Próxima »

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N1008A</a>	ASY 48, ASY 77, 2N1191...94	=2N1008, 40V		1 → E 2 → B 3 → C 4 →
PNP Germânico		Audio / chaveamento		

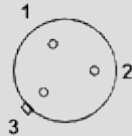
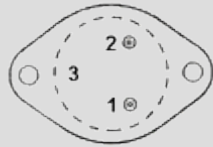
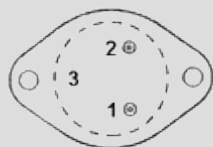


<a href="#">2N1008B</a>		=2N1008, 60V		1 → E 2 → B 3 → C 4 →
PNP Germânio	ASY 48, ASY 77	Audio / chaveamento		
<a href="#">2N1009</a>		35V, 0,3A, 0,15W		1 → E 2 → B 3 → C 4 →
PNP Germânio	AC 128, AC 152...153	Audio / chaveamento		
<a href="#">2N101(/13)</a>		30V, 1,5A		Sem Pinout
PNP Germânio	-	Audio / potência		
<a href="#">2N1010</a>		10/10/10V, 2mA, 0,02W, 2MHz		1 → E 2 → B 3 → C 4 →
NPN Germânio	-	RF		
<a href="#">2N1011</a>		80V, 5A, 90W		1 → E 2 → B 3 → C 4 →
PNP Germânio	AL 102...103, AUY 28, 2N3615...18	Audio / chaveamento / estágios de potência		
<a href="#">2N1012</a>		40V, 0,15W, >3MHz		1 → E 2 → B 3 → C 4 →
NPN Germânio	-	Chaveamento (B=invólucro)		
<a href="#">2N1014</a>		100V, 5A, 50W		1 → E 2 → B 3 → C 4 →
PNP Germânio	AL 102...103, AUY 28, 2N3616, 2N3618	Audio / chaveamento / estágios de potência		
<a href="#">2N1017</a>		30V, 1A, 0,2W		1 → E 2 → B 3 → C 4 →
PNP Germânio	AC 128, AC 153, 2SB324, 2SB415	Audio		
<a href="#">2N1018</a>		30V, 1A, 0,2W		1 → E 2 → B 3 → C 4 →
PNP Germânio	AC 128, AC 153, 2SB324, 2SB415	Audio		


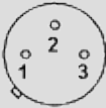


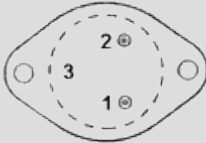


REFERÊN CIA	EQUIVALEN TES	APLICAÇÃO/CARACTERÍS TICAS	BOX/CAIXA	PINOS/PINO UT
<a href="#">2N1008A</a>  PNP Germânio	ASY 48, ASY 77, 2N1191...94	=2N1008, 40V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1008B</a>  PNP Germânio	ASY 48, ASY 77	=2N1008, 60V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1009</a>  PNP Germânio	AC 128, AC 152...153	35V, 0,3A, 0,15W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N101(/13)</a>  PNP Germânio	-	30V, 1,5A  Audio / potência		Sem Pinout
<a href="#">2N1010</a>  NPN Germânio	-	10/10/10V, 2mA, 0,02W, 2MHz  RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1011</a>  PNP Germânio	AL 102...103, AUY 28, 2N3615...18	80V, 5A, 90W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1012</a>  NPN Germânio	-	40V, 0,15W, >3MHz  Chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">2N1014</a>  PNP Germânio	AL 102...103, AUY 28, 2N3616, 2N3618	100V, 5A, 50W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

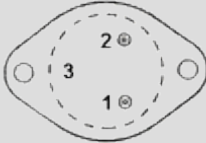
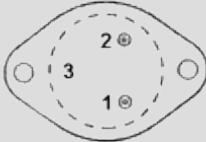
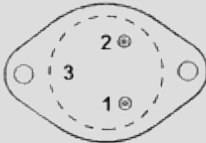
<a href="#">2N1017</a>	AC 128, AC 153, 2SB324, 2SB415	30V, 1A, 0,2W Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1018</a>	AC 128, AC 153, 2SB324, 2SB415	30V, 1A, 0,2W Audio		1 → E 2 → B 3 → C 4 →


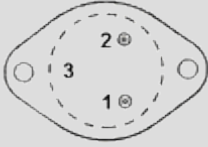
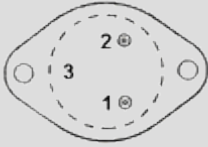
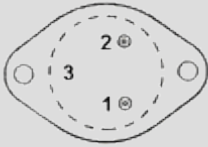
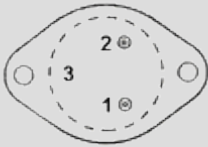
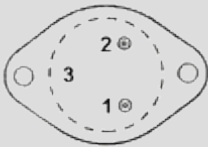
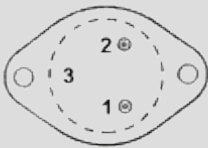
« Anterior1 3456789 ...588589Próxima »

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N102(/13)</a> NPN Germânio	-	25V, 1,5A Audio / potência		Sem Pinout
<a href="#">2N1021(A)</a> PNP Germânio	2N1552, 2N1556, 2N1560, 2N3616, 2N3618	100V, 7A, 150W Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1022(A)</a> PNP Germânio	2N2290, 2N2293	=2N1021, 120V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1023</a> PNP Germânio	AF 106, AF 109R, AF 306	40V, 10mA, 0,12W, 120MHz RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1024</a> PNP Silício	BC 213, BC 258, BC 308, BC 558	18V, 0,1A, 0,25W, >1MHz Uso geral		1 → E 2 → B 3 → C 4 →

<a href="#">2N1025</a> PNP Silício	BC 212, BC 257, BC 307, BC 557	40V, 0,1A, 0,25W, >1MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1026(A)</a> PNP Silício	BC 212, BC 257, BC 307, BC 557	40V, 0,1A, 0,25W, >2MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1027</a> PNP Silício	BC 213, BC 258, BC 308, BC 558	18V, 0,1A, 0,25W, >4MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1028</a> PNP Silício	BC 213, BC 258, BC 308, BC 558	12V, 0,1A, 0,25W, >7,2MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1029</a> PNP Germânico	2N1550...52, 2N1555...56, 2N1559...60	50V, 15A, 90W, B>20 Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

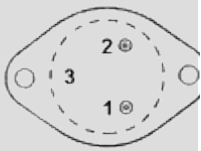
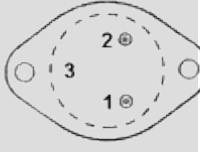
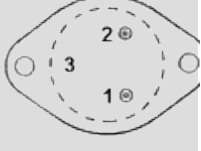
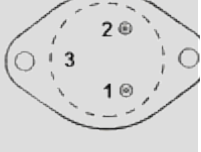
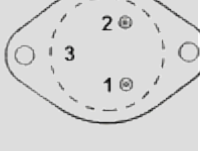




« Anterior12 456789 ... 588589Próxima »

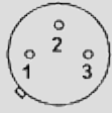
REFERÊNCI A	EQUIVALENTE S	APLICAÇÃO/CARACTERÍSTICA S	BOX/CAIXA	PINOS/PINO U
<a href="#">2N1029A</a> PNP Germânico	2N1550...52, 2N1555...56, 2N1559...60	=2N1029, 60V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1029B</a> PNP Germânico	2N1552, 2N1556, 2N1560	=2N1029, 90V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1029C</a> PNP Germânico	2N1552, 2N1556, 2N1560	=2N1029, 100V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →








<a href="#">2N103</a> NPN Germânico	AC 127, ASY 28, 2SD30	35V, 0,01A, 0,05W  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1030</a> PNP Germânico	2N1550...52, 2N1555...56, 2N1559...60	50V, 15A, 90W, B>50  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1030A</a> PNP Germânico	2N1550...52, 2N1555...56, 2N1559...60	=2N1030, 60V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1030B</a> PNP Germânico	2N1552, 2N1556, 2N1560	=2N1030, 90V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1030C</a> PNP Germânico	2N1552, 2N1556, 2N1560	=2N1030, 100V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1031</a> PNP Germânico	2N1550...52, 2N1555...56, 2N1559...60	50V, 15A, 90W, B>20  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1031A</a> PNP Germânico	2N1550...52, 2N1555...56, 2N1559...60	=2N1031, 60V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

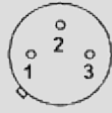
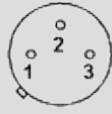

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REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
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<a href="#">2N1031B</a>		=2N1031, 90V		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1552, 2N1556, 2N1560	Audio / chaveamento / estágios de potência		
<a href="#">2N1031C</a>		=2N1031, 100V		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1552, 2N1556, 2N1560	Audio / chaveamento / estágios de potência		
<a href="#">2N1032</a>		50V, 15A, 90W, B>50		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1550...52, 2N1555...56, 2N1559...60	Audio / chaveamento / estágios de potência		
<a href="#">2N1032A</a>		=2N1032, 60V		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1550...52, 2N1555...56, 2N1559...60	Audio / chaveamento / estágios de potência		
<a href="#">2N1032B</a>		=2N1032, 90V		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1552, 2N1556, 2N1560	Audio / chaveamento / estágios de potência		
<a href="#">2N1032C</a>		=2N1032, 100V		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1552, 2N1556, 2N1560	Audio / chaveamento / estágios de potência		
<a href="#">2N1034</a>		50V, 0,05A, 0,25W, $\beta > 9$		1 → E 2 → B 3 → C 4 →
PNP Silício	BC 212, BC 257, BC 307, BC 557	Audio		
<a href="#">2N1035</a>		50V, 0,05A, 0,25W, $\beta > 18$		1 → E 2 → B 3 → C 4 →
PNP Silício	BC 212, BC 257, BC 307, BC 557	Audio		
<a href="#">2N1036</a>		50V, 0,05A, 0,25W, $\beta > 36$		1 → E 2 → B 3 → C 4 →
PNP Silício	BC 212, BC 257, BC 307, BC 557	Audio		

<a href="#">2N1037</a>	BC 212, BC 257, BC 307, BC 557	50V, 0,05A, 0,25W, $\beta > 9$  Audio		1 → E 2 → B 3 → C 4 →
PNP Silício				





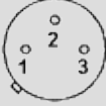
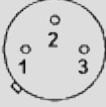
REFERÊN CIA	EQUIVALEN TES	APLICAÇÃO/CARACTERÍS TICAS	BOX/CAIXA	PINOS/PINO UT
<a href="#">2N1038</a>	2N2564	40V, 3A, 20W( $T_c=25^\circ$ )  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1038-1</a>	2N2552, 2N2560	=2N1038  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1038-2</a>	2N1042, 2N2556	=2N1038  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1039</a>	2N2565	60V, 3A, 20W( $T_c=25^\circ$ )  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1039-1</a>	2N2553, 2N2561	=2N1039  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1039-2</a>	2N1043, 2N2557	=2N1039  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N104</a>	AC 125...126, AC 151, 2SB54, 2SB56	30V, 0,05A, 0,15W  Audio		1 → E 2 → B 3 → C 4 →
PNP Germânio				

<a href="#">2N1040</a>		80V, 3A, 20W(Tc=25°)		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N2566	Audio / chaveamento / estágios de potência		
<a href="#">2N1040-1</a>		=2N1040		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N2554, 2N2562	Audio / chaveamento / estágios de potência		
<a href="#">2N1040-2</a>		=2N1040		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1044, 2N2558	Audio / chaveamento / estágios de potência		

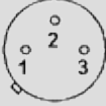
« Anterior12345 789 ... 588589Próxima »

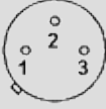
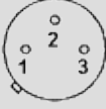


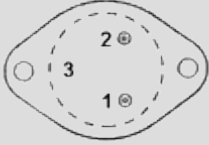
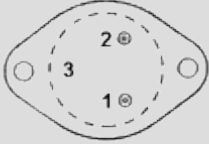

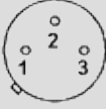
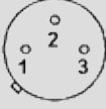
REFERÊNCI A	EQUIVALENTE S	APLICAÇÃO/CARACTERÍSTICA S	BOX/CAIXA	PINOS/PINOU T
<a href="#">2N1041</a>		100V, 3A, 20W(Tc=25°)		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N2567	Audio / chaveamento / estágios de potência		
<a href="#">2N1041-1</a>		=2N1041		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N2555, 2N2563	Audio / chaveamento / estágios de potência		
<a href="#">2N1041-2</a>		=2N1041		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1045, 2N2559	Audio / chaveamento / estágios de potência		
<a href="#">2N1042</a>		40V, 3,5A, 20W(Tc=25°)		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1038, 2N2556	Audio / chaveamento / estágios de potência		

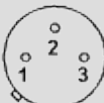

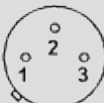








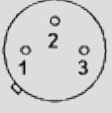
<a href="#">2N1042-1</a>	2N2552, 2N2560	=2N1042 Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1042-2</a>	2N1038, 2N2564	=2N1042 Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1043</a>	2N1039, 2N2557	60V, 3,5A, 20W(Tc=25°) Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1043-1</a>	2N2553, 2N2561	=2N1043 Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1043-2</a>	2N1039, 2N2565	=2N1043 Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1044</a>	2N1040, 2N2558	80V, 3,5A, 20W(Tc=25°) Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

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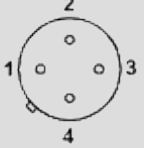
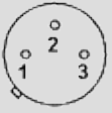
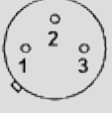
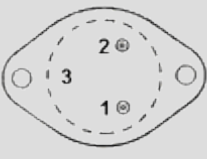

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
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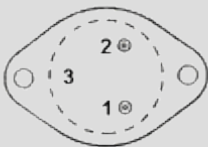
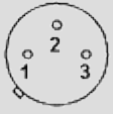
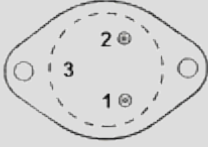
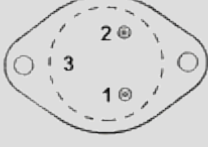
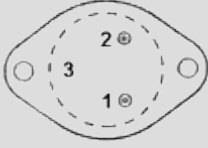
<a href="#">2N1044-2</a>		=2N1044		1 → E 2 → B 3 → C 4 →
PNP Germânico	2N1040, 2N2566	Audio / chaveamento / estágios de potência		
<a href="#">2N1045</a>		100V, 3,5A, 20W(Tc=25°)		1 → E 2 → B 3 → C 4 →
PNP Germânico	2N1041, 2N2559	Audio / chaveamento / estágios de potência		
<a href="#">2N1045-1</a>		=2N1045		1 → E 2 → B 3 → C 4 →
PNP Germânico	2N2555, 2N2563	Audio / chaveamento / estágios de potência		
<a href="#">2N1045-2</a>		=2N1045		1 → E 2 → B 3 → C 4 →
PNP Germânico	2N1041, 2N2567	Audio / chaveamento / estágios de potência		
<a href="#">2N1046</a>		100V, 12A, 50W		1 → E 2 → B 3 → C 4 →
PNP Germânico	2N1552, 2N1556, 2N1560	Audio / chaveamento / estágios de potência		
<a href="#">2N1046A,B</a>		=2N1046, 130V		1 → E 2 → B 3 → C 4 →
PNP Germânico	AUY 38, 2N2527...28	Audio / chaveamento / estágios de potência		
<a href="#">2N105</a>		25V, 0,015A, 0,035W		1 → E 2 → B 3 → C 4 →
PNP Germânico	AC 125...126, AC 151, 2SB54, 2SB56	Audio		
<a href="#">2N1051</a>		60V, 0,1A, 0,5W, 3MHz		1 → E 2 → B 3 → C 4 →
NPN Silício	BC 174, BC 182, BC 190, BC 546	Audio		
<a href="#">2N1052</a>		180V, 0,2A, 0,6W, 4MHz		1 → E 2 → B 3 → C 4 →
NPN Silício	BF 258...259, BF 658...659, 2N5058...59	Chaveamento		

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N1053</a>  NPN Silício	BF 258...259, BF 658...659, 2N5058...59	=2N1052, 200V  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1054</a>  NPN Silício	BF 257...259, BF 657...659, 2N5058...59	=2N1052, 125V  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1055</a>  NPN Silício	BF 257...259, BF 657...659, 2N5058...59	=2N1052, 100V  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1056</a>  PNP Germânio	ASY 48, ASY 77, 2N2042...43	70V, 0,3A, 0,24W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1057</a>  PNP Germânio	ASY 48, ASY 76...77, 2SB405ST	45V, 0,3A, 0,24W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1058</a>  NPN Germânio	AC 127, ASY 28, ASY 73...75	-/20V, 0,05A, 0,05W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1059</a>  NPN Germânio	AC 127, ASY 28, ASY 73...75	40V, 0,1A, 0,18W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N106</a>  PNP Germânio	AC 125...126, AC 151, 2SB54, 2SB56	15V, 0,01A, 0,1W  Audio		1 → E 2 → B 3 → C 4 →

<a href="#">2N1060</a> NPN Silício	BSW 41, BSY 63, 2N708. 2N4123	40V, 0,2A, 0,25W, <50/-ns Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1065</a> PNP Germânico	ASY 76...77	40V, 0,12W, >20MHz RF / chaveamento		1 → E 2 → B 3 → C 4 →


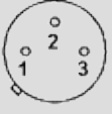

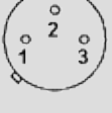
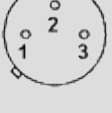


« Anterior12... 678 101112... 588Próxima »


REFERÊNCI A	EQUIVALENTE S	APLICAÇÃO/CARACTERÍSTICA S	BOX/CAIXA	PINOS/PINO U T
<a href="#">2N1066</a> PNP Germânico	AF 106, AF 109R, AF 306	40V, 10mA, 0,12W, 120MHz RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1067</a> NPN Silício	BD 137, BD 167, BD 525, BD 825	60V, 0,5A, 5W, 1,5MHz Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1068</a> NPN Silício	BD 137, BD 167, BD 525, BD 825	=2N1067, 1,5A, 10W Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1069</a> NPN Silício	BD245A, BDV 91, 2N4914...15, 2N5068...69	60V, 4A, 50W Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N107</a> PNP Germânico	AC 125...126, AC 151, 2SB54, 2SB56	12V, 0,01A, 0,05W Audio		1 → E 2 → B 3 → C 4 →










<a href="#">2N1070</a> NPN Silício	BD245A, BDV 91, 2N4914...15, 2N5068...69	60V, 4A, 50V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1072</a> NPN Silício	BD 135, BD 165, BD 509, BD 825	-/30V, 2A, 12W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1073</a> PNP Germânico	AL 100...101, AUY 21, 2N3611...18	40V, 10A, 85W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1073A</a> PNP Germânico	AL 100...101, AUY 37, 2N3615...18	=2N1073, 80V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1073B</a> PNP Germânico	AL 100, AUY 38, 2N2290, 2N2293	=2N1073, 120V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

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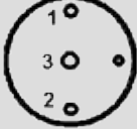


REFERÊNCI A	EQUIVALENTE S	APLICAÇÃO/CARACTERÍSTICA S	BOX/CAIXA	PINOS/PINOU T
<a href="#">2N1074</a> NPN Silício	BC 167, BC 182, BC 237, BC 547	50V, 0,05A, 0,25W, $\beta=14$  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1075</a> NPN Silício	BC 167, BC 182, BC 237, BC 547	=2N1074, $\beta=25$  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1076</a> NPN Silício	BC 167, BC 182, BC 237, BC 547	=2N1074, $\beta=50$  Audio		1 → E 2 → B 3 → C 4 →









<a href="#">2N1077</a> NPN Silício	BC 167, BC 182, BC 237, BC 547	=2N1074, $\beta=18$ Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N108</a> PNP Germânio	AC 125...126, AC 151, 2SB54, 2SB56	20V, 0,015A, 0,05W Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1081</a> NPN Silício	BC 140...141, BC 300...302, 2N3053	40V, 0,75A, 0,6W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1082</a> NPN Silício	BC 168, BC 183, BC 238, BC 548	25V, 0,05A, 0,2W, >17MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1084</a> PNP Silício	BC 461, BCX 60, 2N4235...36	60V, 2A, 5W( $T_c=100^\circ$ ) Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1085</a> NPN Silício	BC 441, BCX 40, 2N4238...39	60V, 2A, 5W( $T_c=100^\circ$ ) Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1086(A)</a> NPN Germânio	-	9V, 0,02A, 0,065W, 8MHz Audio / RF		1 → E 2 → B 3 → C 4 →

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N1087</a> NPN Germânio	-	9V, 0,02A, 0,065W, 8MHz Audio / RF		1 → E 2 → B 3 → C 4 →


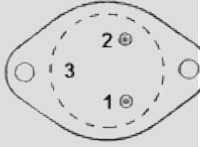

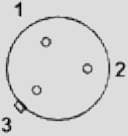
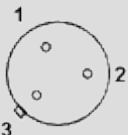
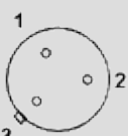
<a href="#">2N109</a> PNP Germânio	AC 125...126, AC 151, 2SB54, 2SB56	35V, 0,15A, 0,165W  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N109/5</a> PNP Germânio	AC 125...126, AC 151, 2SB54, 2SB56	25V, 0,07A, 0,15W  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1090</a> NPN Germânio	ASY 73...75	25V, 0,4A, 0,12W, 7MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1091</a> NPN Germânio	ASY 73...75	25V, 0,4A, 0,12W, 13MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1092</a> NPN Silício	BC 140...141, BC 300...302, 2N1613	60V, 0,5A, 1,5MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1093</a> PNP Germânio	AC 125...126, AC 151...152, 2SB324	30V, 0,3A, 0,15Wz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1094</a> PNP Germânio	AF 139, AF 239S	30V, 0,04A, 0,15W, 645MHz  UHF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1094</a> PNP Germânio	AF 139, AF 239S	30V, 0,04A, 0,15W, 645MHz  UHF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1095</a> NPN Silício	BC 140...141, BC 300...302, 2N3053	60V, 0,5W, 3MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →





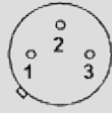







Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2N1096</a>  NPN Silício	BC 141, BC 300...301, 2N1889...90	90V, 0,5W, 3MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1097</a>  PNP Germânio	AC 125...126, AC 151, 2SB54, 2SB56	-16V, 0,1A, 0,14W, B>34  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1098</a>  PNP Germânio	AC 125...126, AC 151, 2SB54, 2SB56	=2N11097, B>25  Uso diverso		1 → E 2 → B 3 → C 4 →
<a href="#">2N1099</a>  PNP Germânio	2N1982, 2N2075, 2N2079, 2N2492...93	80V, 15A, 170W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N110</a>  PNP Germânio	-	50V, 0,04A, 0,2W  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1100</a>  PNP Germânio	2N2493	=2N1099, 100V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1101</a>  NPN Germânio	AC 127, ASY 28...29, ASY 73...75	20V, 0,1A, 0,18W  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1102</a>  NPN Germânio	-	=2N1101, 40V  Audio		1 → E 2 → B 3 → C 4 →

<a href="#">2N1103</a> NPN Silício	BC 167, BC 182, BC 237, BC 547	45V, 0,02A, 0,125W, >10MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1104</a> NPN Silício	BC 167, BC 182, BC 237, BC 547	45V, 0,02A, 0,125W, >20MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2N1105</a> NPN Silício	BC 140...141, BC 300...302, 2N3053	60V, 0,5A, 0,8W  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1106</a> NPN Silício	BC 141, BC 300, 2N1889...90, 2N1990	=2N1105, 100V  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1107</a> PNP Germânio	AF 124...126, AF 200	16V, 5mA, 0,03W, 40MHz  RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1108</a> PNP Germânio	AF 124...126, AF 200	16V, 5mA, 0,03W, 35MHz  RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1109</a> PNP Germânio	AF 124...126, AF 200	16V, 5mA, 0,03W, 35MHz  RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N111(A)</a> PNP Germânio	ASY 26, 2N3323...25	30V, 0,2A, 0,13W, 3MHz  RF		1 → E 2 → B 3 → C 4 →

<a href="#">2N1110</a>		16V, 5mA, 0,03W, 35MHz		1 → E 2 → B 3 → C 4 →
PNP Germânio	AF 124...126, AF 200	RF		
<a href="#">2N1111(A,B)</a>		20V, 5mA, 0,03W, 35MHz		1 → E 2 → B 3 → C 4 →
PNP Germânio	AF 124...126, AF 200	RF		
<a href="#">2N1114</a>		25V, 0,2A, 0,15W, >7MHz		1 → E 2 → B 3 → C 4 →
NPN Germânio	AC 127, ASY 28...29, ASY 73...75	Audio / chaveamento (B=invólucro)		
<a href="#">2N1115(A)</a>		20V, 0,125A, 0,15W, >5MHz		1 → E 2 → B 3 → C 4 →
PNP Germânio	AC 125...126, AC 151, ASY 26...27	Audio / chaveamento		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2N1116</a>		60V, 0,8A, 0,6W, >6MHz		1 → E 2 → B 3 → C 4 →
NPN Silício	BC 140...141, BC 300...302, 2N3053	Audio / chaveamento		
<a href="#">2N1117</a>		60V, 0,8A, 0,6W, >4MHz		1 → E 2 → B 3 → C 4 →
NPN Silício	BC 140...141, BC 300...302, 2N3053	Audio / chaveamento		
<a href="#">2N1118(A)</a>		25V, 0,05A, 0,15W		1 → E 2 → B 3 → C 4 →
PNP Silício	BC 213, BC 258, BC 308, BC 558	Uso geral		
<a href="#">2N1119</a>		10V, 0,05A, 0,15W		1 → E 2 → B 3 → C 4 →
PNP Silício	BC 213, BC 258, BC 308, BC 558	Uso geral		

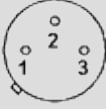
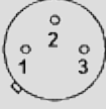


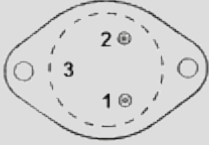
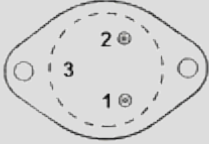
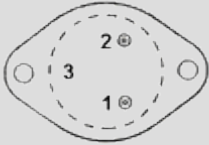
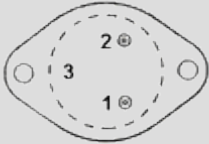
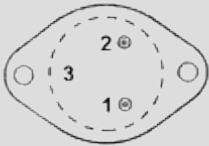
<a href="#">2N112(A)</a>		30V, 0,2A, 0,13W, 5MHz		1 → E 2 → B 3 → C 4 →
PNP Germânio	ASY 26, 2N3323...25	RF		
<a href="#">2N1120</a>		80V, 15A, 90W		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1551...52, 2N1555...56, 2N1559...60	Audio / chaveamento / estágios de potência		
<a href="#">2N1121</a>		-15V, 0,02A, 0,065W, 8MHz		1 → E 2 → B 3 → C 4 →
NPN Germânio	-	RF		
<a href="#">2N1122</a>		12V, 0,05A, 0,025W		1 → B 2 → E 3 → C 4 →
PNP Germânio	-	RF / chaveamento		
<a href="#">2N1122A</a>		=2N1122, 15V		1 → B 2 → E 3 → C 4 →
PNP Germânio	-	RF / chaveamento		
<a href="#">2N1123</a>		45V, 0,5A, 0,75W		1 → B 2 → E 3 → C 4 →
PNP Germânio	2N1189...90	Audio / chaveamento		

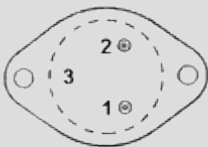
REFERÊN CIA	EQUIVALEN TES	APLICAÇÃO/CARACTERÍS TICAS	BOX/CAIXA	PINOS/PINO UT
<a href="#">2N1124</a>		40V, 0,25A, 0,3W		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1189...90, 2SB405ST	Audio / chaveamento		
<a href="#">2N1125</a>		40V, 0,25A, 0,3W		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1189...90, 2SB405ST	Audio / chaveamento		

<a href="#">2N1126</a>	2N1189...90, 2SB405ST	=2N1124, 1W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1127</a>	2N1189...90, 2SB405ST	=2N1125, 1W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1128</a>	AC 128, AC 152...153, AC 188, 2SB324	25V, 0,25A, 0,15W Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1129</a>	AC 128, AC 152...153, AC 188, 2SB324	25V, 0,25A, 0,15W Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N113</a>	ASY 26, 2N3323...25	30V, 0,2A, 0,13W, 10MHz RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1130</a>	AC 128, AC 152...153, AC 188, 2SB324	30V, 0,25A, 0,15W Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1131</a>	BC 161, BC 303...304, 2N2904...05(A)	50V, 0,6A, 0,6W, >50MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1131A,A S</a>	BC 161, BC 303...304, 2N2904...05(A)	=2N1131, 60V Audio / chaveamento		1 → E 2 → B 3 → C 4 →

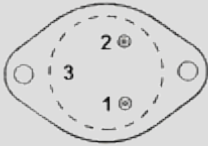
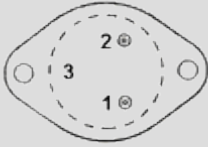
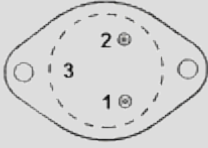
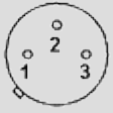


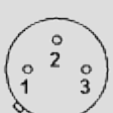
« Anterior12 ... [131415](#) [171819](#) ... [588](#)Próxima »

REFERÊNCIA	EQUIVALENTE	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
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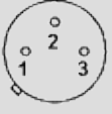

<a href="#">2N1132</a> PNP Silício	BC 161, BC 303...304, 2N2904...05(A)	50V, 0,6A, 0,6W, >60MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1132A</a> PNP Silício	BC 161, BC 303...304, 2N2904...05(A)	=2N1132, 60V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1132B</a> PNP Silício	BC 303, BSW 40, 2N4031, 2N4033	=2N1132, 75V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1135(A)</a> PNP Silício	(BC 213, BC 258, BC 308, BC 558)	12/12/12V, 0,05A, 0,1A, >5,6MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1136</a> PNP Germânico	AL 102...103, AUY 28, 2N3615...18	60V, 6A, 60W, B>50 Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1136A</a> PNP Germânico	AL 102...103, AUY 28, 2N3616, 2N3618	=2N1136, 90V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1136B</a> PNP Germânico	AL 102...103, AUY 37, 2N3616, 2N3618	=2N1136, 100V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1137</a> PNP Germânico	AL 102...103, AUY 28, 2N3615...18	60V, 6A, 60W, B>75 Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1137A</a> PNP Germânico	AL 102...103, AUY 28, 2N3616, 2N3618	=2N1137, 90V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

<a href="#">2N1137B</a>	AL 102...103, AUY 37, 2N3616, 2N3618	=2N1137, 100V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
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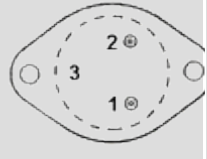
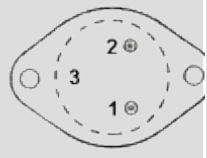
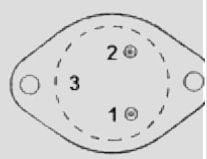
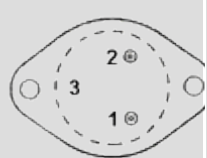
« Anterior12... [141516](#) [181920](#)... [588Próxima](#) »

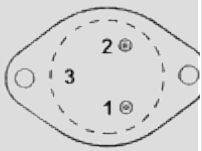
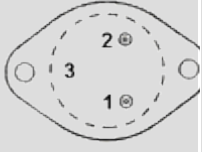
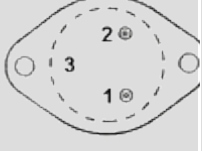
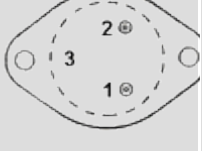

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N1138</a>	AL 102...103, AUY 28, 2N3615...18	60V, 6A, 60W, B>100  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1138A</a>	AL 102...103, AUY 28, 2N3616, 2N3618	=2N1138, 90V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1138B</a>	AL 102...103, AUY 37, 2N3616, 2N3618	=2N1138, 100V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1139</a>	BSV 69, 2N3724, 2SC1072, 2SC1385	15V, 0,1A, 0,5W, >100MHz  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N114</a>	ASY 26, 2N3323...25	30V, 0,2A, 0,13W, 20MHz  RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1140</a>	BSV 69, 2N3724, 2SC1072, 2SC1385	40V, 1W, >35MHz  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1141(A)</a>	AFY 18	35V, 0,1A, 0,3W, >1200MHz  VHF / UHF		1 → E 2 → B 3 → C 4 →










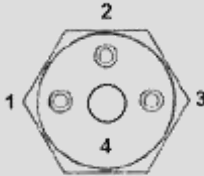


<a href="#">2N1142(A)</a>	AFY 18	35V, 0,1A, 0,3W, >1000MHz		1 → E 2 → B 3 → C 4 →
<a href="#">2N1143(A)</a>	AFY 18	35V, 0,1A, 0,3W, >800MHz		1 → E 2 → B 3 → C 4 →
<a href="#">2N1144</a>	AC 125...126, AC 151, 2SB54, 2SB56	16V, 0,1A, 0,14W, $\beta=55$ Audio		1 → E 2 → B 3 → C 4 →

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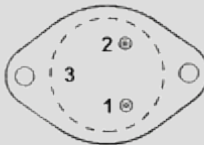
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINO
<a href="#">2N1145</a>	AC 125...126, AC 151, 2SB54, 2SB56	=2N1144, $\beta=45$ Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1146</a>	2N1549...60	40V, 15A, 90W Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1146A</a>	2N1550...52, 2N1554...56, 2N1558...60	=2N1146, 60V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1146B</a>	2N1551...52, 2N1555...56, 2N1559...60	=2N1146, 80V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1146C</a>	2N1552, 2N1556, 2N1560	=2N1146, 100V Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

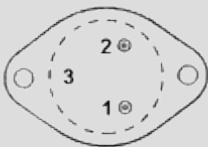
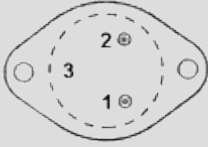
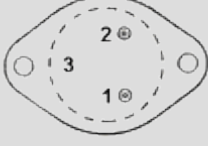
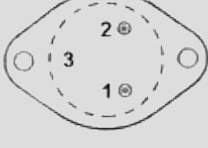
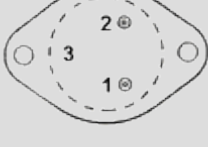
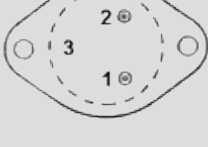
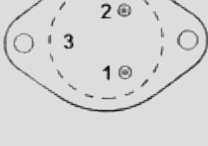


<a href="#">2N1147</a>		40V, 15A, 90W		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1549...60	Audio / chaveamento / estágios de potência		
<a href="#">2N1147A</a>		=2N1147, 60V		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1550...52, 2N1554...56, 2N1558...60	Audio / chaveamento / estágios de potência		
<a href="#">2N1147B</a>		=2N1147, 80V		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1551...52, 2N1555...56, 2N1559...60	Audio / chaveamento / estágios de potência		
<a href="#">2N1147C</a>		=2N1147, 100V		1 → E 2 → B 3 → C 4 →
PNP Germânio	2N1552, 2N1556, 2N1560	Audio / chaveamento / estágios de potência		
<a href="#">2N1149</a>	BC 167, BC 182, BC 237, BC 547	45V, 0,025A, 0,15W, 12MHz  Uso geral		1 → E 2 → B 3 → C 4 →
NPN Silício				









REFERÊN CIA	EQUIVALEN TES	APLICAÇÃO/CARACTERÍS TICAS	BOX/CAIXA	PINOS/PINO UT
<a href="#">2N1150</a>	BC 167, BC 182, BC 237, BC 547	45V, 0,025A, 0,15W, 13MHz  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1151</a>	BC 167, BC 182, BC 237, BC 547	45V, 0,025A, 0,15W, 14MHz  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1152</a>	BC 167, BC 182, BC 237, BC 547	45V, 0,025A, 0,15W, 15MHz  Uso geral		1 → E 2 → B 3 → C 4 →
NPN Silício				








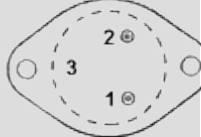
<a href="#">2N1153</a>	BC 167, BC 182, BC 237, BC 547	45V, 0,025A, 0,15W, 16MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1154</a>	BC 140...141, BC 300...302, 2N3053	50V, 0,06A, 0,75W, 1MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1155</a>	BC 140...141, BC 300...301, 2N1889...90	=2N1154, 80V, 0,05A Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1156</a>	BC 300, 2N1883(A), 2N2102, 2N2405	=2N1154, 120V, 0,04A Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1157</a>	-	60V, 40A, 187W Chaveamento / potência		1 → E 2 → B 3 → C 4 → C
<a href="#">2N1157A</a>	-	=2N1157, 80V Chaveamento / potência		1 → E 2 → B 3 → C 4 → C
<a href="#">2N1158(A)</a>	-	20V, 0,1A, 0,06..0,075W RF		1 → E 2 → B 3 → C 4 →

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REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N1159</a>	AL 102...103, AUY 22, 2N3615...18	80V, 5A, 90W Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

<a href="#">2N1160</a> PNP Germânico	AL 102...103, AUY 22, 2N3615...18	=2N1159, 7A  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1162(A)</a> PNP Germânico	2N1651...53, 2N2285...87	50V, 25A, 106W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1163(A)</a> PNP Germânico	2N1651...53, 2N2285...87	50V, 25A, 106W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1164(A)</a> PNP Germânico	2N1652...53, 2N2286...87	80V, 25A, 106W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1165(A)</a> PNP Germânico	2N1652...53, 2N2286...87	80V, 25A, 106W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1166(A)</a> PNP Germânico	2N1653, 2N2287	100V, 25A, 106W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1167(A)</a> PNP Germânico	2N1653, 2N2287	100V, 25A, 106W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1168</a> PNP Germânico	AL 102...103, AUY 22, 2N1545...48	50V, 5A, 45W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1169</a> NPN Germânico	-	40V, 0,4A, 0,12W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →

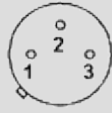





REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N117</a> NPN Silício	BC 167, BC 182, BC 237, BC 547	45V, 25mA, 0,15W, $\beta > 9$  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1170</a> NPN Germânio	-	40V, 0,4A, 0,12W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1171</a> PNP Germânio	AC 128, AC 152...153, ASY 26, ASY 76...77	30V, 0,4A, 0,17W, >10MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1172</a> PNP Germânio	AD 162	40V, 1,5A, 5W  Audio / chaveamento		1 → E 2 → B 3 → C 4 → C
<a href="#">2N1173</a> NPN Germânio	-	35V, 0,2A, 0,25W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1174</a> PNP Germânio	-	35V, 0,2A, 0,25W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1175(A)</a> PNP Germânio	AC 128, AC 152...153, ASY 76...77	35V, 0,5A, 0,225W, 4,2MHz  Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">2N1176</a> PNP Germânio	AC 128, AC 152...153, 2SB324, 2SB415	10V, 0,3A, 0,3W  Audio		1 → E 2 → B 3 → C 4 →

<a href="#">2N1176A</a>	PNP Germânio	ASY 48, ASY 76...77, 2SB405ST	=2N1176, 40V  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">2N1176B</a>	PNP Germânio	ASY 48, ASY 77	=2N1176, 60V  Audio		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">2N1177</a>	PNP Germânio	AF 106, AF 109R, AF 306  RF	40V, 10mA, 0,08W, 140MHz		1 → E 2 → B 3 → C 4 →
<a href="#">2N1178</a>	PNP Germânio	AF 106, AF 109R, AF 306  RF	40V, 10mA, 0,08W, 140MHz		1 → E 2 → B 3 → C 4 →
<a href="#">2N1179</a>	PNP Germânio	AF 106, AF 109R, AF 306  RF	40V, 10mA, 0,08W, 140MHz		1 → E 2 → B 3 → C 4 →
<a href="#">2N118(A)</a>	NPN Silício	BC 167, BC 182, BC 237, BC 547	=2N117, $\beta > 19$  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1180</a>	PNP Germânio	AF 106, AF 109R, AF 306  RF	40V, 10mA, 0,08W, 100MHz		1 → E 2 → B 3 → C 4 →
<a href="#">2N1182</a>	PNP Germânio	2N1541...43, 2N1546...48, 2N3615...18	-/60V, 5A, 106W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →


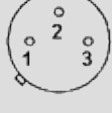
<a href="#">2N1183</a>		45V, 3A, 7,5W, B>20		
PNP	AUY 18	Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1183A</a>		=2N1183, 60V		
PNP	AUY 18	Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1183B</a>		=2N1183, 80V		
PNP	-	Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1184</a>		45V, 3A, 7,5W, B>40		
PNP	AUY 18	Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

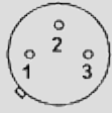
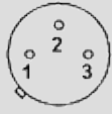
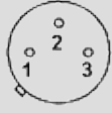





REFERÊN CIA	EQUIVALEN TES	APLICAÇÃO/CARACTERÍS TICAS	BOX/CAIXA	PINOS/PINO UT
<a href="#">2N1184A</a>		=2N1184, 60V		
PNP	AUY 18	Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1184B</a>		=2N1184, 80V		
PNP	-	Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1185</a>		45V, 0,5A, 0,2W, 3MHz, $\beta > 190$		
PNP	ASY 76...77	Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1186</a>		60V, 0,5A, 0,2W, 1,5MHz, $\beta > 30$		
PNP	ASY 77	Audio / chaveamento		1 → E 2 → B 3 → C 4 →

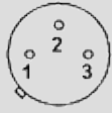
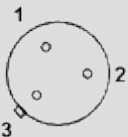
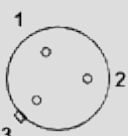
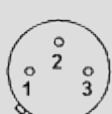
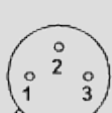

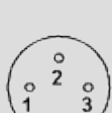
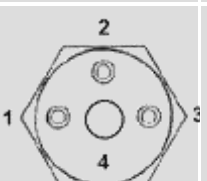
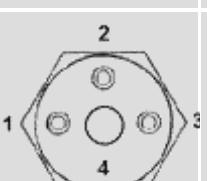


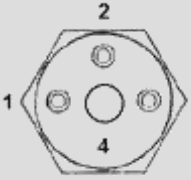
<a href="#">2N1187</a>	PNP Germânio	ASY 77	60V, 0,5A, 0,2W, 2MHz, $\beta > 50$		1 → E 2 → B 3 → C 4 →
<a href="#">2N1188</a>	PNP Germânio	ASY 77	60V, 0,5A, 0,2W, 2,5MHz, $\beta > 100$		1 → E 2 → B 3 → C 4 →
<a href="#">2N1189</a>	PNP Germânio	ASY 76...77, 2SB405ST	45V, 0,5A, 0,2W, 3,5MHz, $\beta > 75$		1 → E 2 → B 3 → C 4 →
<a href="#">2N119</a>	NPN Silício	BC 167, BC 182, BC 237, BC 547	=2N117, $\beta > 38$		1 → E 2 → B 3 → C 4 →
<a href="#">2N1190</a>	PNP Germânio	ASY 76...77, 2SB405ST	45V, 0,5A, 0,2W, 4,5MHz, $\beta > 125$		1 → E 2 → B 3 → C 4 →
<a href="#">2N1191</a>	PNP Germânio	ASY 48, ASY 76...77, 2SB56A	40V, 0,2A, 0,2W, 1,5MHz, $\beta > 30$		1 → E 2 → B 3 → C 4 →


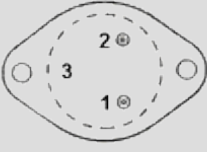





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REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINO
<a href="#">2N1192</a>	PNP Germânio	ASY 48, ASY 76...77, 2SB56A		1 → E 2 → B 3 → C 4 →
<a href="#">2N1193</a>	PNP Germânio	ASY 48, ASY 76...77, 2SB56A		1 → E 2 → B 3 → C 4 →

<a href="#">2N1194</a>	ASY 48, ASY 76...77, 2SB56A	40V, 0,2A, 0,2W, 3MHz, $\beta > 190$		1 → E 2 → B 3 → C 4 →
PNP Germânico		Audio / chaveamento		
<a href="#">2N1195</a>	2N1141...43	30V, 0,04A, 0,225W, >1200MHz		1 → E 2 → B 3 → C 4 →
PNP Germânico		UHF		
<a href="#">2N1196</a>	BC 212, BC 256, BC 266, BC 556	70V, 0,1A, 0,35		1 → E 2 → B 3 → C 4 →
PNP Silício		Uso geral		
<a href="#">2N1197</a>	BC 212, BC 256, BC 266, BC 556	70V, 0,1A, 0,35		1 → E 2 → B 3 → C 4 →
PNP Silício		Uso geral		
<a href="#">2N1198</a>	ASY 28...29, ASY 73...75	25V, 0,075A, 0,065W, 9MHz		1 → E 2 → B 3 → C 4 →
NPN Germânico		Audio / chaveamento		
<a href="#">2N1199(A)</a>	BSV 89...92, BSX 92...93, 2N2368...69(A)	20V, 0,1A, 0,15W, 125MHz		1 → E 2 → B 3 → C 4 →
NPN Silício		RF / chaveamento		
<a href="#">2N120</a>	BC 167, BC 182, BC 237, BC 547	=2N117, $\beta > 76$		1 → E 2 → B 3 → C 4 →
NPN Silício		Audio / chaveamento		
<a href="#">2N1200</a>	BC 168, BC 183, BC 238, BC 548	20V, 0,1A, 0,1W, 4,3MHz		1 → E 2 → B 3 → C 4 →
NPN Silício		RF		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

<a href="#">2N1201</a> NPN Silício	BC 168, BC 183, BC 238, BC 548	=2N1200, 12MHz RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1202</a> PNP Germânio	-	80V, 3,5A, 34W Chaveamento / potência		1 → E 2 → C 3 → B 4 →
<a href="#">2N1203</a> PNP Germânio	-	=2N1202, 120V Chaveamento / potência		1 → E 2 → C 3 → B 4 →
<a href="#">2N1204(A)</a> PNP Germânio	2N1495, 2N2099...2100	20V, 0,5A, 0,3W, 200MHz Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1205</a> NPN Silício	BC 168, BC 183, BC 238, BC 548	20V, 0,15W, >17MHz Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1206</a> NPN Silício	BC 140...141, BC 300...302, 2N3053	60V, 0,15A, 3W(Tc=100°), >10MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1207</a> NPN Silício	BC 300, 2N1893(A), 2SC959, 2SC2108	=2N1206, 125V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1208(I)</a> NPN Silício	2N3487...92	60V, 5A, 45..80W Chaveamento / potência		1 → E 2 → B 3 → C 4 → C
<a href="#">2N1209(I)</a> NPN Silício	2N3487...92	45V, 5A, 45..80W Chaveamento / potência		1 → E 2 → B 3 → C 4 → C


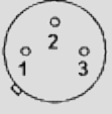

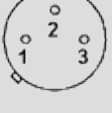
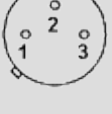
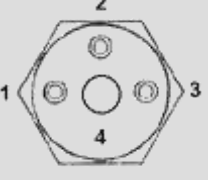
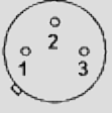

<a href="#">2N1212(I)</a>		60V, 5A, 45..80W		1 → E
NPN Silício	2N3487...92	Chaveamento / potência		2 → B 3 → C 4 → C

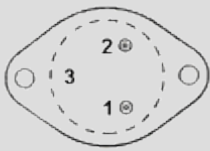
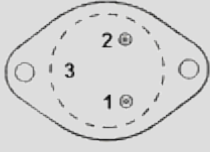






REFERÊN CIA	EQUIVALEN TES	APLICAÇÃO/CARACTERÍS TICAS	BOX/CAIXA	PINOS/PINO UT
<a href="#">2N1217</a>	-	20V, 0,025A, 0,075W, 9MHz		1 → E
NPN Germânio	-	Audio / chaveamento		2 → B 3 → C 4 →
<a href="#">2N1218</a>	-	45V, 3A, 20W		1 → E
NPN Germânio	-	Audio / chaveamento / estágios de potência		2 → B 3 → C 4 →
<a href="#">2N1219</a>	BC 213, BC 258, BC 308, BC 558	30V, 0,1A, 0,25W, >5MHz		1 → E
PNP Silício	BC 558	Uso geral		2 → B 3 → C 4 →
<a href="#">2N1220</a>	BC 213, BC 258, BC 308, BC 558	30V, 0,1A, 0,25W, >2MHz		1 → E
PNP Silício	BC 558	Uso geral		2 → B 3 → C 4 →
<a href="#">2N1221</a>	BC 213, BC 258, BC 308, BC 558	30V, 0,1A, 0,25W		1 → E
PNP Silício	BC 558	Uso geral		2 → B 3 → C 4 →
<a href="#">2N1222</a>	BC 213, BC 258, BC 308, BC 558	30V, 0,1A, 0,25W, >2MHz		1 → E
PNP Silício	BC 558	Uso geral		2 → B 3 → C 4 →
<a href="#">2N1223</a>	BC 212, BC 257, BC 307, BC 557	40V, 0,1A, 0,25W, 2MHz		1 → E
PNP Silício	BC 557	Uso geral		2 → B 3 → C 4 →

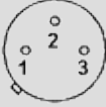








<a href="#">2N1224</a>	PNP Germânio	AF 124...126, AF 200	40V, 10mA, 0,12W, 30MHz RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1225</a>	PNP Germânio	AF 124...125, AF 200	40V, 10mA, 0,12W, 100MHz RF		1 → E 2 → B 3 → C 4 →
<a href="#">2N1226</a>	PNP Germânio	AF 118	60V, 10mA, 0,12W, 30MHz RF		1 → E 2 → B 3 → C 4 →

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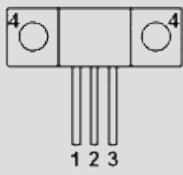
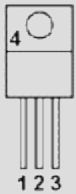
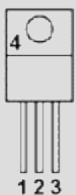


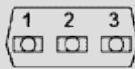
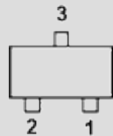
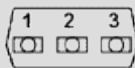
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2N1227</a>	AD 149, AUY 19...20, 2N2144...46	35V, 3A, 50W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1228</a>	BC 213, BC 258, BC 308, BC 558	15V, 0,1A, 0,4W, 1,2MHz, $\beta > 14$  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1229</a>	BC 213, BC 258, BC 308, BC 558	=2N1228, $\beta > 28$  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N123</a>	ASY 26...27, ASY 48, ASY 76...77	20V, 0,125A, 0,15W  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1230</a>	BC 213, BC 258, BC 308, BC 558	35V, 0,1A, 0,4W, 1,2MHz, $\beta > 14$  Uso geral		1 → E 2 → B 3 → C 4 →

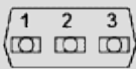
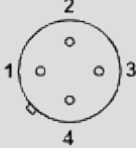
<a href="#">2N1231</a> PNP Silício	BC 213, BC 258, BC 308, BC 558	=2N1230, $\beta > 28$  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1232</a> PNP Silício	BC 212, BC 256, BC 266, BC 556	60V, 0,1A, 0,4W, 1MHz, $\beta > 14$  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1232A</a> PNP Silício	2SC1890, 2SC2240, 2SC2459, 2SC3245	=2N1232, 90V  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1233</a> PNP Silício	BC 212, BC 256, BC 266, BC 556	=2N1232, $\beta > 28$  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1234</a> PNP Silício	2SC1890A, 2SC2240, 2SC2459, 2SC3245	110V, 0,1A, 0,4W, 0,8MHz, $\beta > 14$  Uso geral		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2N1235</a> NPN Silício	2N3489, 2N3492, 2N5284...85	120V, 2A, 85W  Chaveamento / potência		1 → E 2 → B 3 → C 4 → C
<a href="#">2N123A(/5)</a> PNP Germânico	ASY 26...27, ASY 48, ASY 76...77	=2N123  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N124</a> NPN Germânico	ASY 26...27, ASY 48, ASY 76...77	10V, 8mA, 0,05W, 3MHz  Chaveamento		1 → E 2 → B 3 → C 4 →

<a href="#">2N1245</a>	AD 149, AUY 28, 2N1529...48, PNP Germânico 2SB449	30V, 4A, 20W  Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1246</a>	AD 149, AUY 28, 2N1529...48, PNP Germânico 2SB449	30V, 4A, 20W  Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">2N1247</a>	BC 168, BC 183, BC 238, BC 548 NPN Silício	6V, 5mA, 0,03W, 5MHz, B>15  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1248</a>	BC 168, BC 183, BC 238, BC 548 NPN Silício	6V, 5mA, 0,03W, 5MHz, B>15  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1249</a>	BC 168, BC 183, BC 238, BC 548 NPN Silício	6V, 5mA, 0,03W, 5MHz, B>20  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N125</a>	ASY 26...27, ASY 48, ASY 76...77 NPN Germânico	10V, 8mA, 0,05W, 5MHz  Chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1251</a>	AC 127, ASY 28...29, ASY NPN Germânico 73...75	20V, 0,1A, 0,15W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2N1252</a>	BC 140...141, BC 300...302, NPN Silício 2N2218...19	30V, 1A, 0,6W, >40MHz, B>15  Audio / chaveamento		1 → E 2 → B 3 → C 4 →



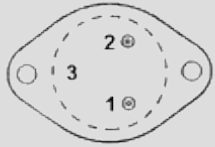
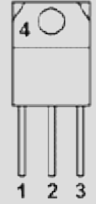
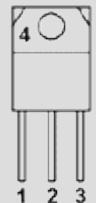
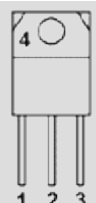
<a href="#">2N1252A</a>	BC 140...141, BC 300...302, 2N2218...19	=2N1252, 60V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1253</a>	BC 140...141, BC 300...302, 2N2218...19	30V, 1A, 0,6W, >50MHz, B>30 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1253A</a>	BC 140...141, BC 300...302, 2N2218...19	=2N1253, 60V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">2N1254</a>	BC 213, BC 308, BC 558, BSX 36	30V, 0,1A, 0,275W, <25/40ns Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1255</a>	BC 213, BC 308, BC 558, BSX 36	30V, 0,1A, 0,275W, <25/60ns Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1256</a>	BC 212, BC 307, BC 557, BSX 36	40V, 0,1A, 0,275W, <25/40ns Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1257</a>	BC 212, BC 307, BC 557, BSX 36	40V, 0,1A, 0,275W, <25/60ns Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1258</a>	BC 212, BC 307, BC 557, BSX 36	40V, 0,1A, 0,275W, <25/60ns Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">2N1259</a>	BC 212, BC 307, BC 557, BSX 36	50V, 0,1A, 0,275W, <25/60ns Uso geral		1 → E 2 → B 3 → C 4 →

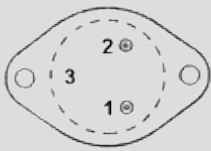
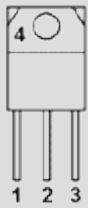
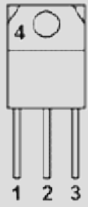
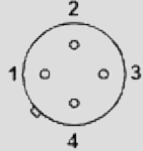
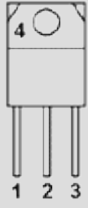
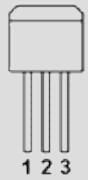
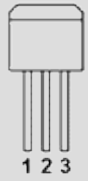
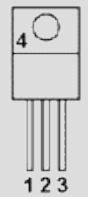


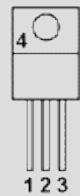
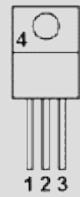
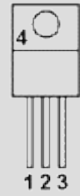


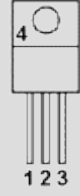
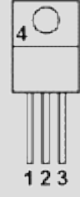
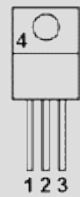
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2SJ100</a>  MOS FET Canal P	2SJ83	=2SJ99, 160V  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ101</a>  MOS FET Canal P	BUZ 172, IRF 9521, IRF 9523, 2SJ153	40V, 5A, 30W, <0,4Ohm, 60/100ns  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ102</a>  MOS FET Canal P	BUZ 172, IRF 9521, IRF 9523, 2SJ153	=2SJ101, 60V  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ103</a>  FET Canal P	2N5460, 2N5463, 2SJ105	50V, Idss>1,2mA, Up<6V  Uso geral		1 → Drain 2 → Gate 3 → Source 4 →
<a href="#">2SJ104</a>  FET Canal P	2SJ107...108	25V, Idss>2,6mA, Up<2V  Uso geral		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">2SJ105</a>  FET Canal P	2N5460, 2N5463, 2SJ103	=2SJ103  Uso geral		1 → Drain 2 → Gate 3 → Source 4 →
<a href="#">2SJ106</a>  FET Canal P	-	=2SJ103, SMD  SMD		1 → Drain 2 → Source 3 → Gate 4 →
<a href="#">2SJ107</a>  FET Canal P	2SJ104, 2SJ108	=2SJ104  Uso geral		1 → Source 2 → Gate 3 → Drain 4 →

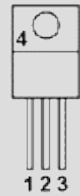

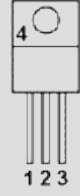
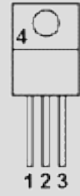

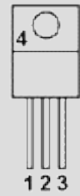

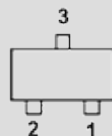
<a href="#">2SJ108</a>	2SJ104, 2SJ107	25V, $I_{dss} > 1\text{mA}$ , $U_p < 2\text{V}$ Uso geral / baixo ruído		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ11</a>	2N2606, 2N5797	20V, $I_{dss} = 0,05..0,9\text{mA}$ , $U_p < 5\text{V}$ Uso geral		1 → Sourc 2 → Gate 3 → Drain 4 → Subst

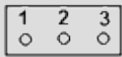
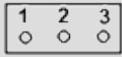
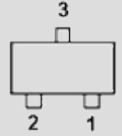
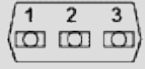
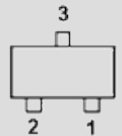
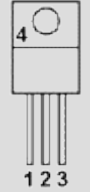
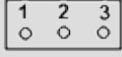
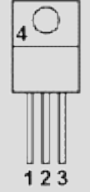
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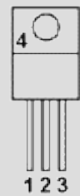
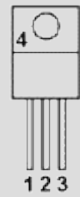
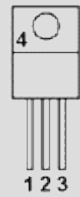
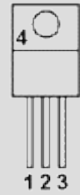
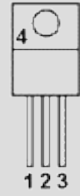
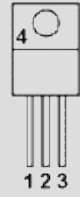
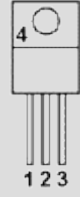
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2SJ110</a>	2SJ72	25V, $I_{dss} = 5..30$ , $U_p < 2\text{V}$ Uso geral		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ111</a>	2SJ72	25V, $I_{dss} = 5..30$ , $U_p < 2\text{V}$ Audio / chaveamento / baixo ruído		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ112</a>	2SJ131, 2SJ200	100V, 10A, 100W, $< 0,35\Omega$ (5A) Uso diverso		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ113</a>	2SJ131, 2SJ200	=2SJ112 Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ114</a>	-	=2SJ112, 200V, 8A Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ115</a>	2SJ114, 2SJ119	160V, 8A, 100W, $< 1,4\Omega$ Audio / potência		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

<a href="#">2SJ116</a>		400V, 8A, 125W, <2,25Ohm,60/220ns		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ118</a>	2SJ114...115	140V, 8A, 100W,<4Ohm(4A),70/160ns		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ119</a>	2SJ114...115	=2SJ118, 160V		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ12</a>	2N2606, 2N5797	=2SJ11, Idss=0,09..0,9mA		1 → Sourc 2 → Gate 3 → Drain 4 → Subst
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ131</a>	2SJ200	170V, 10A, 100W		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ132(Z)</a>	2SJ120, 2SJ191	30V, +-2A, 20W, <0,4Ohm(1A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ133(Z)</a>	2SJ191	60V, +-2A, 20W, <0,8Ohm(1A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ134</a>	IRF 9630...9633	100V, +-6A, 40W, <0,6Ohm(3,5A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain



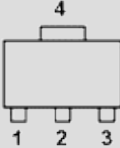
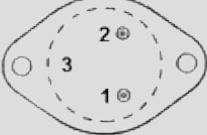
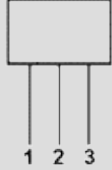
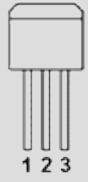
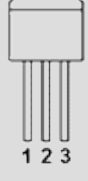
<a href="#">2SJ135</a>	2SJ154	=2SJ134, , +-5A, 30W Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ136</a>	IRF 9541, IRF 9543, 2SJ140, 2SJ173	60V, +-12A, 40W, <0,3Ohm(6,5A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ137</a>	2SJ147, 2SJ175	=2SJ136, , +-10A, 30W Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ138</a>	IRF 9540, IRF 9542, 2SJ127	100V, +-12A, 60W, <0,3Ohm(6,5A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ139</a>	2SJ274	=2SJ138, , +-10A, 35W Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ140</a>	2SJ174, 2SJ221	60V, +-19A, 60W, <0,2Ohm(10A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 → Drain
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ152</a>	2SJ135, 2SJ157	=2SJ151, , 30W Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ153</a>	-	60V, +-6A, 40W, <0,6Ohm(3,5A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 → Drain

<a href="#">2SJ154</a>	2SJ137, 2SJ147, 2SJ175, 2SJ236, 2SJ390	=2SJ153, , +5A, 30W Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ155</a>	2SJ152	50V, 3A, 30W, <0,65Ohm(2A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ156</a>	2SJ135, 2SJ154	50V, 5A, 30W, <0,22Ohm(3A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ157</a>	2SJ135, 2SJ152	100V, 3A, 30W, <1,6Ohm(2A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ158</a>	2SJ135, 2SJ154	100V, 5A, 30W, <0,55Ohm(3A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ159</a>	2SJ306	160V, 3A, 30W, <1Ohm(2A) Chaveamento / potência		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ16</a>	2N5460, 2N5463, 2SJ103, 2SJ105	18V, Idss=1,5mA, Up<6V Uso geral (G=invólucro)		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">2SJ163</a>	-	=2SJ164, SMD SMD		1 → Drain 2 → Source 3 → Gate 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

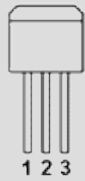
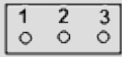
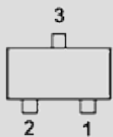
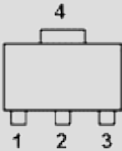
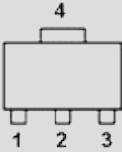
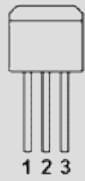
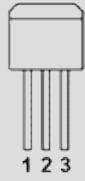
<a href="#">2SJ164</a> FET Canal P	2N5020	65V, 20mA, Idss=0,2..6mA, Up<3,5V  Uso diverso		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ165</a> MOS FET Canal P + Diodo	BSS 110, 2SJ148	50V, +-0,1A, 0,25W, <50Ohm(20mA)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ166</a> MOS FET Canal P + Diodo	BSS 84, 2SJ185	=2SJ165, SMD  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ167</a> MOS FET Canal P	BST 100	=2SJ148, 0,3W  Chaveamento		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ168</a> MOS FET Canal P	2SJ209...211	=2SJ148, SMD  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ169</a> MOS FET Canal P	2SJ122...123, 2SJ172	60V, 12A, 50W,<0,35Ohm(6,5A)  Chaveamento / potência		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ17</a> FET Canal P	-	20V, Idss>0,11mA  Audio / baixo ruido		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">2SJ170</a> MOS FET Canal P	2SJ127, 2SJ138	80V, 12A, 50W,<0,35Ohm(6,5A)  Chaveamento / potência		1 → Gate 2 → Drain 3 → Sourc 4 → Drain


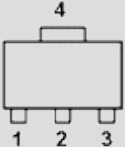
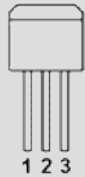
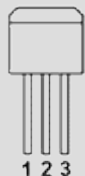
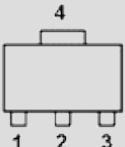
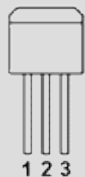
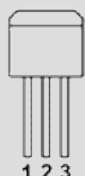
<a href="#">2SJ171</a> MOS FET Canal P	BUZ 171, 2SJ122...123, 2SJ136, 2SJ172	50V, 9,7A,40W,<0,28Ohm(5,6A)  Chaveamento / potência		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ172</a> MOS FET Canal P + Diodo	2SJ290, 2SJ302	60V, 10A, 40W, <0,18Ohm(5A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ173</a> MOS FET Canal P + Diodo	2SJ221, 2SJ290, 2SJ302	60V, 15A, 50W, <0,11Ohm(8A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ174</a> MOS FET Canal P + Diodo	2SJ221, 2SJ291	60V, 20A, 75W,<0,085Ohm(10A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ175</a> MOS FET Canal P + Diodo	2SJ236	=2SJ172, , 25W  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ176</a> MOS FET Canal P + Diodo	2SJ293, 2SJ321	=2SJ173, , 30W  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ177</a> MOS FET Canal P + Diodo	2SJ294, 2SJ322	=2SJ174, , 35W  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →



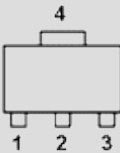


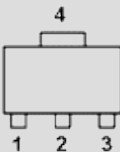
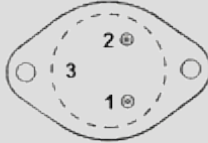


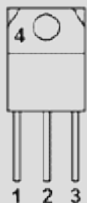

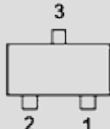
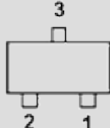
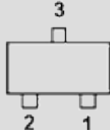
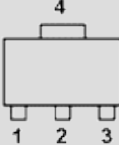
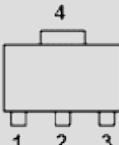
<a href="#">2SJ178</a>		30V, +-1A, 0,75W, <1Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ196	Chaveamento		
<a href="#">2SJ178</a>		30V, +-1A, 0,75W, <1Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ196	Chaveamento		
<a href="#">2SJ179</a>		=2SJ178, SMD, +-1,5A		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ190, 2SJ197, 2SJ238	SMD		
<a href="#">2SJ18</a>	-	170V, 5A, 63W, 16Ohm		1 → Sourc 2 → Gate 3 → Drain 4 →
FET Canal P		Potência		
<a href="#">2SJ180</a>		=2SJ178, 1W		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	2SJ196	Uso diverso	Visualização frontal	
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ181(L,S)</a>		600V, 0,5A, 20W, <25Ohm(0,3A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	-	Uso diverso		
<a href="#">2SJ182(L,S)</a>		60V, 3A, 20W, <0,4Ohm(2A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ235	Uso diverso		

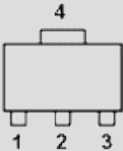
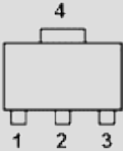
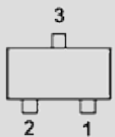

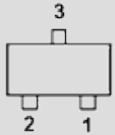
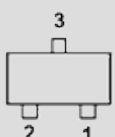
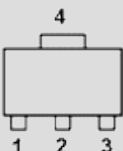


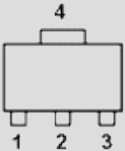
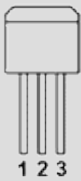


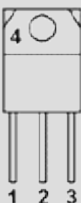

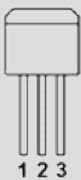
<a href="#">2SJ183</a>	MOS FET Canal P + Diodo	2SJ192, 2SJ245, 2SK279	60V, 5A, 20W, <0,35Ohm(2,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ184</a>	MOS FET Canal P + Diodo	BSS 110	50V, +-0,1A, 0,25W, <40Ohm(1mA)  Chaveamento		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ185</a>	MOS FET Canal P + Diodo	BSS 84	=2SJ184, SMD  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ186</a>	MOS FET Canal P + Diodo	-	200V, 0,5A, <12Ohm(0,25A), 12/32ns  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ187</a>	MOS FET Canal P + Diodo	2SJ190, 2SJ278	30V, 1A, <0,75Ohm(0,5A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ188</a>	MOS FET Canal P + Diodo	2SJ191, 2SJ194	30V, 2A, 20W, <0,3Ohm(1A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ189</a>	MOS FET Canal P + Diodo	2SJ192, 2SJ245, 2SJ279	30V, 4A, 30W, <0,12Ohm(2A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →


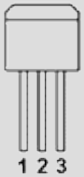
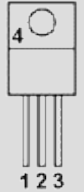
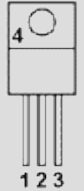
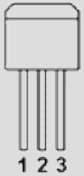
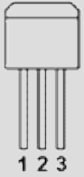
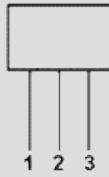
<a href="#">2SJ19</a>	-	140V, 0,1A, 0,8W		1 → Sourc 2 → Gate 3 → Drain 4 →
FET Canal P		Audio		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ190</a>	2SJ278	60V, 1A, <1,2Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo		SMD		
<a href="#">2SJ191</a>	2SJ235	60V, 2A, 20W, <0,45Ohm(1A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo		Uso diverso		
<a href="#">2SJ192</a>	2SJ245, 2SJ279	60V, 4A, 30W, <0,2Ohm(2A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo		Uso diverso		
<a href="#">2SJ193</a>	-	100V, 1A, <2,4Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo		SMD		
<a href="#">2SJ194</a>	2SJ195	100V, 2A, 20W, <0,95Ohm(1A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo		Uso diverso		
<a href="#">2SJ195</a>	-	100V, 4A, 30W, <0,4Ohm(2A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo		Uso diverso		

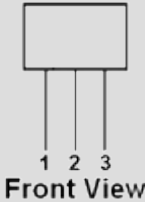
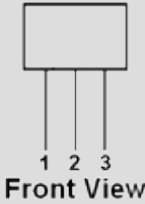
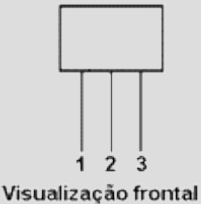
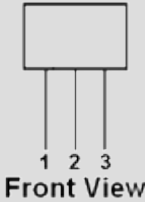
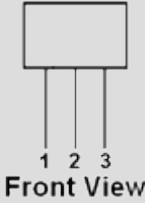
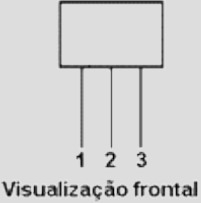
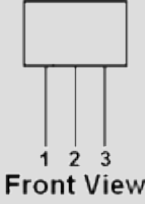
<a href="#">2SJ196</a>		60V, +-1A, 0,75W, <1Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ196</a>		60V, +-1A, 0,75W, <1Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ197</a>	2SJ190, 2SJ238	=2SJ196, SMD SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ198</a>	2SJ231	100V, +-0,5A, 0,75W, <2Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ198</a>	2SJ231	100V, +-0,5A, 0,75W, <2Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ199</a>	2SJ213	=2SJ198, SMD SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ20</a>	-	100V, 10A, 100W, 10Ohm		1 → Sourc 2 → Gate 3 → Drain 4 →
FET Canal P		Potência		

<a href="#">2SJ200</a>	-	180V, 10A, 120W  Saida de audio		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ201</a>	-	200V, 12A, 150W  Saida de audio		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ202</a>	-	16V, +-0,1A, <30Ohm(1mA)  SMD (2mm)		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ203</a>	BSS 84, 2SJ185	16V, +-0,2A, <10Ohm(1mA)  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ204</a>	BSS 84, 2SJ185	30V, +-0,2A, <8Ohm(10mA)  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ205</a>	2SJ212	16V, +-0,5A, <3Ohm(0,3A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ206</a>	2SJ212	30V, +-0,5A, <3Ohm(0,3A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

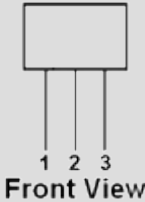
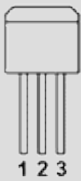
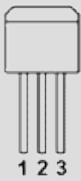
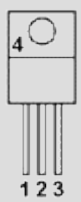
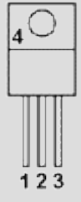
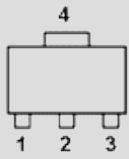
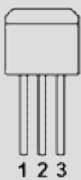
<a href="#">2SJ207</a>	2SJ190, 2SJ197, 2SJ238	16V, +-1A, <1,5Ohm(0,5A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ208</a>	-	16V, +-2A, <1Ohm(1A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ209</a>	-	100V, +-0,1A, <60Ohm(10mA)  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ21</a>	-	160V, 15W, Idss=30..300  Potência		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ210</a>	BSS 84, 2SJ185	60V, +-0,2A, <10Ohm(10mA)  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ211</a>	-	100V, +-0,2A, <20Ohm(10mA)  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ212</a>	2SJ199, 2SJ213	60V, +-0,5A, <3Ohm(0,5A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →

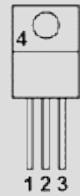

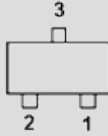
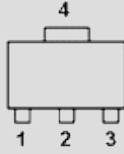


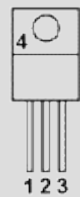
<a href="#">2SJ213</a>		100V, +-0,5A, <4,2Ohm(0,3A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ199	SMD		
<a href="#">2SJ214(L,S)</a>		60V, 10A, 40W, <0,18Ohm(5A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ219, 2SJ296	Uso diverso		
<a href="#">2SJ215</a>		60V, 35A, 125W, <0,06Ohm		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ217	Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ216</a>		=2SJ215, , 50W		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	2SJ218	Uso diverso		
<a href="#">2SJ217</a>		60V, 45A, 150W, <0,042Ohm		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	-	Uso diverso		
<a href="#">2SJ218</a>		=2SJ217, , 60W		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	-	Uso diverso		
<a href="#">2SJ219(L,S)</a>		60V, 15A, 50W, <0,11Ohm(8A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ268, 2SJ296	Uso diverso		

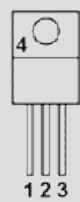
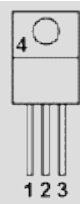
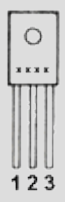
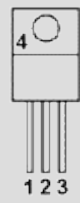
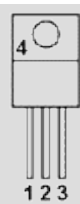
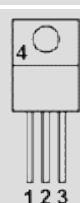


<a href="#">2SJ22</a>	-	80V, Idss=0,3..0,7mA  Audio / baixo ruído		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">2SJ220(L,S)</a>	2SJ241, 2SJ297, 2SJ409	60V, 20A, 75W, <0,085Ohm(10A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ221</a>	-	100V, 20A, 75W  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ222</a>	-	=2SJ221, , 35W  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ223(L,S)</a>	2SJ326	60V, 2A, 10W, <0,7Ohm(1A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ224</a>	2SJ219, 2SJ296	60V, 12A, 80W, <0,2Ohm(6A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ225</a>	2SJ196	30V, 1A, 1W, <0,75Ohm(0,5A)  Chaveamento	 Visualização frontal	1 → Gate 2 → Drain 3 → Sourc 4 →

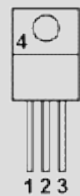
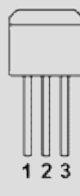





<a href="#">2SJ226</a>		30V, 2A, 1,5W, <0,3Ohm(1A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	-	Chaveamento		
<a href="#">2SJ227</a>		30V, 3A, 1,5W, <0,13Ohm(1,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	-	Chaveamento		
<a href="#">2SJ228</a>	2SJ353	60V, 0,8A, 1W, <1,2Ohm(0,4A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo		Uso diverso		
<a href="#">2SJ229</a>		60V, 1,6A, <0,45Ohm(0,8W)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	-	Uso diverso		
<a href="#">2SJ230</a>		60V, 2,5A, <0,21Ohm(1,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	-	Uso diverso		
<a href="#">2SJ231</a>		100V, 0,5A, 1W, <2,4Ohm(0,25A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	-	Chaveamento		
<a href="#">2SJ232</a>		100V, 1,2A, <0,95Ohm(0,6A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	-	Uso diverso		

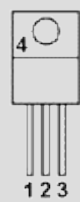
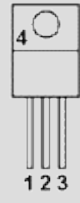



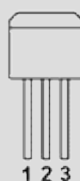
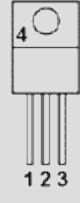


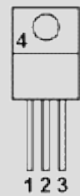
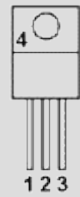
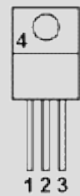
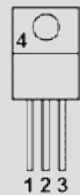
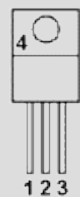
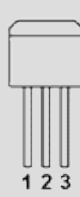
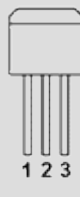
<a href="#">2SJ233</a>		100V, 1,8A, <0,4Ohm(1A)  Uso diverso		1 → Source 2 → Drain 3 → Gate 4 →
<a href="#">2SJ234(L,S)</a>	2SJ191	30V, 2,5A, 10W, <0,4Ohm(1,4A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ235(L,S)</a>	(2SJ182)	60V, 3A, 20W, <0,4Ohm(2A) integr. Rg  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ236</a>	(2SJ176)	60V, 10A, 25W, <0,18Ohm(5A) integr. Rg  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ237</a>	(2SJ177, 2SJ293)	60V, 15A, 30W, <0,11Ohm(8A) integr. Rg  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ238</a>	2SJ190, 2SJ193, 2SJ278	60V, 1A, <0,85Ohm(0,5A)  SMD		1 → Source 2 → Drain 3 → Gate 4 →
<a href="#">2SJ239</a>	2SJ183, 2SJ192, 2SJ195, 2SJ279	60V, 5A, 20W, <0,25Ohm(2,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain

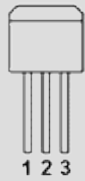
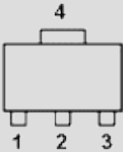
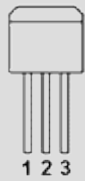
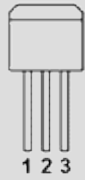
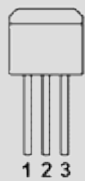
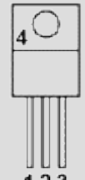
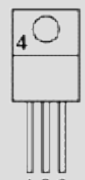
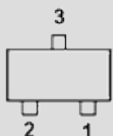
<a href="#">2SJ240</a>	MOS FET Canal P + Diodo	2SJ177, 2SJ294, 2SJ322, 2SJ330	60V, 20A, 45W, <0,045Ohm(10A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ241</a>	MOS FET Canal P	2SJ220, 2SJ297, 2SJ409	=2SJ240, 100W  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ243</a>	MOS FET Canal P + Diodo	-	30V, +-0,1A, <25Ohm(10mA)  SMD (1,6mm)		1 → 2 → 3 → 4 →
<a href="#">2SJ244</a>	MOS FET Canal P + Diodo	(2SJ317)	12V, 2A, <0,9Ohm(0,5A) integr. Rg  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ245(L,S)</a>	MOS FET Canal P + Diodo	2SJ192, 2SJ279	60V, 5A, 20W, <0,25Ohm(3A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">2SJ246(L,S)</a>	MOS FET Canal P + Diodo	2SJ333	30V, 7A, 20W, <0,17Ohm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ247</a>	MOS FET Canal P + Diodo	-	100V, 8A, 40W, <0,3Ohm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

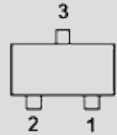
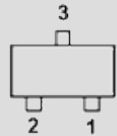
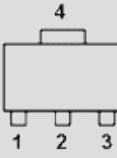
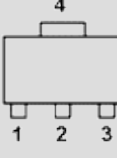
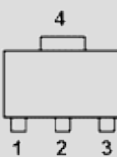
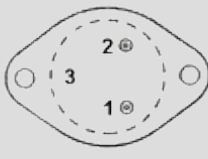
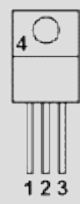
<a href="#">2SJ248</a>		=2SJ247, , 25W		1 → Gate 2 → Drain 3 → Source 4 →
MOS FET Canal P + Diodo	2SJ350	Uso diverso		
<a href="#">2SJ249</a>		100V, 15A, 45W, <0,16Ohm(7A)		1 → Gate 2 → Drain 3 → Source 4 →
MOS FET Canal P	2SJ142, 2SJ222	Potência		
<a href="#">2SJ250</a>		60V, 10A, 12W, <0,19Ohm(5A)		1 → Source 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	-	Uso diverso		
<a href="#">2SJ251</a>		30V, 10A, 50W, <0,17Ohm(5A)		1 → Gate 2 → Drain 3 → Source 4 → Drain
MOS FET Canal P	2SJ172	Uso diverso		
<a href="#">2SJ252</a>		30V, 12A, 60W, <0,13Ohm(6A)		1 → Gate 2 → Drain 3 → Source 4 → Drain
MOS FET Canal P	2SJ173, 2SJ290	Uso diverso		
<a href="#">2SJ253</a>		30V, 20A, 70W, <75mOhm(10A)		1 → Gate 2 → Drain 3 → Source 4 → Drain
MOS FET Canal P	2SJ174, 2SJ291	Uso diverso		
<a href="#">2SJ254</a>		30V, 8A, 25W, <0,12Ohm(5A)		1 → Gate 2 → Drain 3 → Source 4 →
MOS FET Canal P + Diodo	2SJ175, 2SJ236	Uso diverso		
<a href="#">2SJ255</a>		30V, 10A, 25W, <95mOhm(6A)		1 → Gate 2 → Drain 3 → Source 4 →
MOS FET Canal P + Diodo	2SJ175, 2SJ236	Uso diverso		

Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ256</a>  MOS FET Canal P + Diodo	2SJ177, 2SJ294, 2SJ374	30V, 18A, 30W, <55mOhm(10A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ257</a>  MOS FET Canal P + Diodo	2SJ214	30V, 10A, 50W, <0,12Ohm(5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ258</a>  MOS FET Canal P + Diodo	2SJ214	30V, 12A, 60W, <95mOhm(6A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ259</a>  MOS FET Canal P + Diodo	2SJ409	30V, 20A, 70W, <55mOhm(10A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ260</a>  MOS FET Canal P	2SJ172	60V, 8A, 50W, <0,27Ohm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ261</a>  MOS FET Canal P	2SJ172	60V, 10A, 60W, <0,2Ohm(5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ262</a>  MOS FET Canal P	2SJ174, 2SJ291	60V, 18A, 70W, <0,11Ohm(9A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain

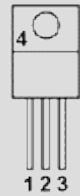



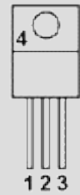
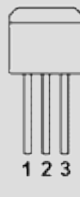
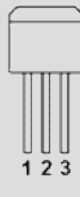
<a href="#">2SJ263</a>		60V, 6A, 25W, <0,20hm(4A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ264</a>		60V, 8A, 25W, <0,150hm(5A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ265</a>		60V, 15A, 30W, <0,110hm(9A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ266</a>		60V, 8A, 50W, <0,20hm(4A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ267</a>		60V, 10A, 60W, <0,150hm(5A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ268</a>		60V, 18A, 70W, <0,080hm(9A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ269</a>	-	100V, 6A, 50W, <0,550hm(3A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain


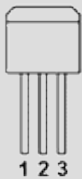

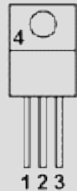
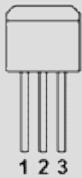
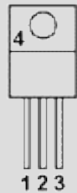
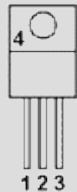
<a href="#">2SJ270</a>	2SJ247	100V, 8A, 60W, <0,40hm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ271</a>	2SJ221	100V, 15A, 70W, <0,220hm(8A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ272</a>	2SJ248	100V, 4A, 25W, <0,40hm(3A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ273</a>	2SJ248	100V, 6A, 25W, <0,30hm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ274</a>	2SJ222	100V, 12A, 30W, <0,160hm(8A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ275</a>	-	100V, 6A, 50W, <0,40hm(3A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ276</a>	-	100V, 8A, 50W, <0,30hm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

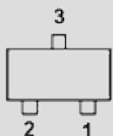
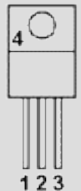
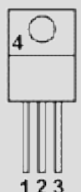
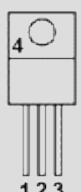
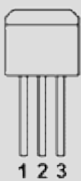
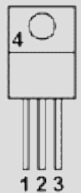
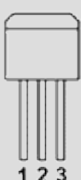
<a href="#">2SJ277</a>		100V, 15A, 70W, <0,16Ohm(8A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ409	Uso diverso		
<a href="#">2SJ278</a>		60V, 1A, <0,83Ohm(0,5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ190	SMD		
<a href="#">2SJ279(L,S)</a>		60V, 5A, 20W, <0,2Ohm(3A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ245	Uso diverso		
<a href="#">2SJ280(L,S)</a>		60V, 30A, 75W, <43mOhm(15A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ402	Uso diverso		
<a href="#">2SJ281</a>		250V, 3A, 30W, <2,6Ohm		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P	-	Uso diverso		
<a href="#">2SJ282</a>		250V, 3A, 50W, <2Ohm(1,5A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P	-	Uso diverso		
<a href="#">2SJ283</a>		120V, 5A, 25W, <1,4Ohm		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P	2SJ350	Uso diverso		
<a href="#">2SJ284</a>		30V, 0,3A, <2,2Ohm(0,15A)		1 → Sourc 2 → Gate 3 → Drain 4 →
MOS FET Canal P	-	SMD		


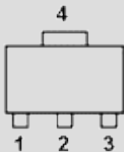
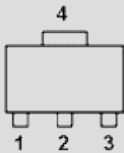

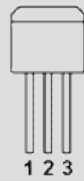
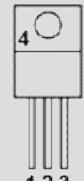
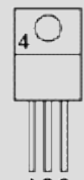
<a href="#">2SJ285</a>	2SJ210...211	60V, 0,25A, <30hm(0,15A)  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ286</a>	2SJ209, 2SJ211	100V, 0,15A, <70hm(0,1A)  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ287</a>	2SJ190, 2SJ278	30V, 0,5A, <2,20hm(0,25A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ288</a>	2SJ190, 2SJ278	60V, 0,5A, <30hm(0,25A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ289</a>	2SJ193	100V, 0,5A, <7,50hm  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ29</a>	-	140V, 10A, 100W, 150hm  Potência		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ290</a>	2SJ173, 2SJ221	60V, 15A, 50W, <95m0hm(8A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

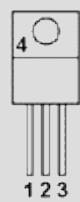
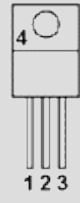







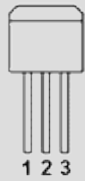
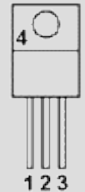
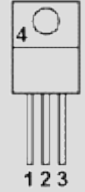

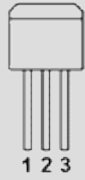
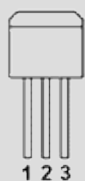
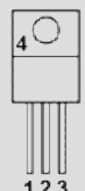
<a href="#">2SJ291</a>		60V, 20A, 60W, <65mOhm(10A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ174, 2SJ221	Uso diverso		
<a href="#">2SJ292</a>		=2SJ280		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	-	Uso diverso		
<a href="#">2SJ293</a>		=2SJ290, , 30W		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	2SJ176, 2SJ321	Uso diverso		
<a href="#">2SJ294</a>		=2SJ291, , 35W		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	2SJ177, 2SJ322	Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ295</a>		=2SJ280, , 35W		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	2SJ323	Uso diverso		
<a href="#">2SJ296(L,S)</a>		=2SJ290		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ219	Uso diverso		
<a href="#">2SJ297(L,S)</a>		=2SJ291		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ220, 2SJ241, 2SJ409	Uso diverso		

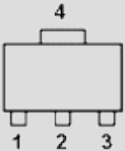
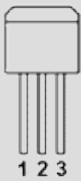
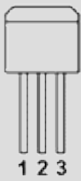
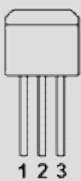
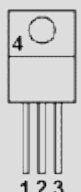
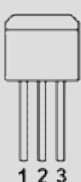
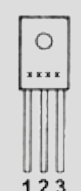
<a href="#">2SJ298</a>		20V, 5A, 12W, <0,12Ohm(3A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ250	Uso diverso		
<a href="#">2SJ299</a>		=2SJ298		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ245, 2SJ279, 2SJ318	Uso diverso		
<a href="#">2SJ300</a>		20V, 10A, 12W, <0,08Ohm(5A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ250	Uso diverso		
<a href="#">2SJ302</a>		60V, 16A, 75W, <0,1Ohm(8A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ173, 2SJ290, 2SJ328	Uso diverso		
<a href="#">2SJ302Z</a>		=2SJ302		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ241, 2SJ268, 2SJ297, 2SJ384	Uso diverso		
<a href="#">2SJ303</a>		60V, 14A, 35W, <0,1Ohm(7A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	2SJ237, 2SJ275, 2SJ293, 2SJ329	Uso diverso		
<a href="#">2SJ304</a>		60V, 14A, 40W, <0,12Ohm(7A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P + Diodo	2SJ176, 2SJ265, 2SJ303, 2SJ329	Uso diverso		

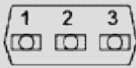
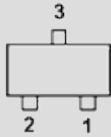
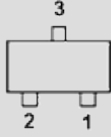
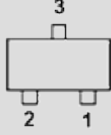
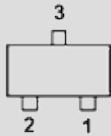
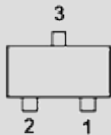
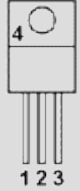
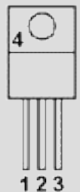
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2SJ305</a>  MOS FET Canal P + Diodo	2SJ210...211	30V, 0,2A, <4Ohm(0,05A)  SMD		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">2SJ306</a>  MOS FET Canal P + Diodo	2SJ307	250V, 3A, 25W, <2Ohm(1,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ307</a>  MOS FET Canal P + Diodo	2SJ308	250V, 6A, 30W, <3Ohm(3A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ308</a>  MOS FET Canal P + Diodo	-	250V, 9A, 40W, <0,48Ohm(5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ312</a>  MOS FET Canal P	2SJ268	=2SJ304  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ313</a>  MOS FET Canal P	-	180V, 1A, 25W  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ314-01(L,S)</a>  MOS FET Canal P	2SJ192, 2SJ245, 2SJ279, 2SJ327	60V, 5A, 20W, <0,03Ohm(2,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain

<a href="#">2SJ315</a>	MOS FET Canal P + Diodo	2SJ192, 2SJ245, 2SJ279, 2SJ327	60V, 5A, 20W, <0,25Ohm(2,5A)  Uso diverso		1 ➔ Gate 2 ➔ Drain 3 ➔ Source 4 ➔ Drain
<a href="#">2SJ316</a>	MOS FET Canal P + Diodo	2SJ190, 2SJ278	12V, 1A, <0,42Ohm(0,5A)  SMD		1 ➔ Source 2 ➔ Drain 3 ➔ Gate 4 ➔
<a href="#">2SJ317</a>	MOS FET Canal P + Diodo	(2SJ244)	12V, +-2A, <0,7Ohm(0,5A) integr. Rg  SMD		1 ➔ Source 2 ➔ Drain 3 ➔ Gate 4 ➔
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">2SJ318(L,S)</a>	MOS FET Canal P + Diodo	2SJ245, 2SJ279, 2SJ299	20V, 5A, 20W,<0,13Ohm(3A)  Uso diverso		1 ➔ Gate 2 ➔ Drain 3 ➔ Source 4 ➔ Drain
<a href="#">2SJ319(L,S)</a>	MOS FET Canal P + Diodo	-	200V, 3A, 20W, <2,3Ohm(2A)  Uso diverso		1 ➔ Gate 2 ➔ Drain 3 ➔ Source 4 ➔ Drain
<a href="#">2SJ320</a>	MOS FET Canal P + Diodo	-	250V, 4A, 25W, <1,3Ohm(2A)  Uso diverso		1 ➔ Gate 2 ➔ Drain 3 ➔ Source 4 ➔
<a href="#">2SJ321</a>	MOS FET Canal P + Diodo	2SJ176, 2SJ293	60V, 15A, 30W, <95mOhm(8A)  Uso diverso		1 ➔ Gate 2 ➔ Drain 3 ➔ Source 4 ➔

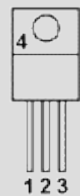



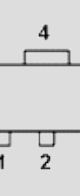
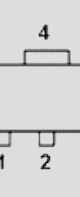
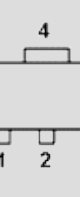
<a href="#">2SJ322</a>		60V, 20A, 35W, <65mOhm(10A)		1 → Gate 2 → Drain 3 → Source 4 →
MOS FET Canal P + Diodo	2SJ177, 2SJ294	Uso diverso		
<a href="#">2SJ323</a>		60V, 30A, 35W, <43mOhm(15A)		1 → Gate 2 → Drain 3 → Source 4 →
MOS FET Canal P + Diodo	2SJ295	Uso diverso		
<a href="#">2SJ324(Z)</a>		30V, +-2A, 20W, <0,25Ohm(1A)		1 → Gate 2 → Drain 3 → Source 4 → Drain
MOS FET Canal P + Diodo	2SJ191, 2SJ326	Uso diverso		
<a href="#">2SJ325(Z)</a>		30V, +-4A, 20W, <0,11Ohm(2A)		1 → Gate 2 → Drain 3 → Source 4 → Drain
MOS FET Canal P + Diodo	2SJ245, 2SJ327, 2SJ327	Uso diverso		
<a href="#">2SJ326(Z)</a>		60V, +-2A, 20W, <0,37Ohm(1A)		1 → Gate 2 → Drain 3 → Source 4 → Drain
MOS FET Canal P + Diodo	2SJ191, 2SJ194	Uso diverso		
<a href="#">2SJ327(Z)</a>		60V, +-4A, 20W, <0,17Ohm(2A)		1 → Gate 2 → Drain 3 → Source 4 → Drain
MOS FET Canal P + Diodo	2SJ192, 2SJ195, 2SJ245, 2SJ279	Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ328</a>		60V, +-20A, 75W, <65mOhm(10A)		1 → Gate 2 → Drain 3 → Source 4 → Drain
MOS FET Canal P + Diodo	2SJ174, 2SJ221	Uso diverso		

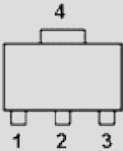
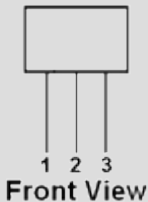
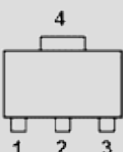
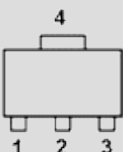
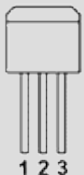
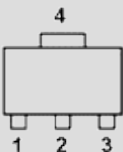
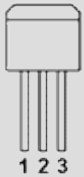
<a href="#">2SJ328Z</a>	MOS FET Canal P + Diodo	2SJ241, 2SJ409	=2SJ328  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ329</a>	MOS FET Canal P + Diodo	2SJ176, 2SJ265, 2SJ293	60V, +-15A, 35W, <0,06Ohm(8A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ330</a>	MOS FET Canal P + Diodo	2SJ177, 2SJ294, 2SJ322	60V, +-20A, 35W, <50mOhm(10A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ331</a>	MOS FET Canal P + Diodo	2SJ217	60V, +-30A, 150W, <0,03Ohm  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ332(L,S)</a>	MOS FET Canal P + Diodo	2SJ389	20V, 10A, 20W, <0,08Ohm(5A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ333(L,S)</a>	MOS FET Canal P + Diodo	2SJ246	30V, 7A, 20W, <0,14Ohm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ334</a>	MOS FET Canal P + Diodo	2SJ295, 2SJ323	60V, 30A, 45W, <38mOhm(15A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →

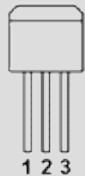
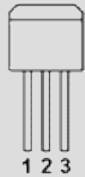
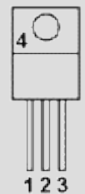
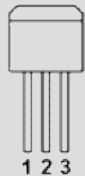
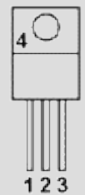
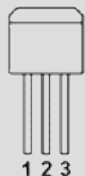
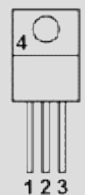
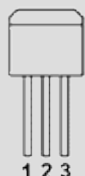
<a href="#">2SJ335</a>		12V, 0,5A, <1.4Ohm		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ190, 2SJ278	SMD		
<a href="#">2SJ336</a>		12V, 2A, 20W, <0,35Ohm(1A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ191	Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ337</a>		12V, 8A, 30W, <0,09Ohm(4A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ246, 2SJ333	Uso diverso		
<a href="#">2SJ338</a>		180V, 1A, 20W, <5Ohm(0,6A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P + Diodo	2SJ130	Uso diverso		
<a href="#">2SJ339</a>		60V, 25A, 40W, <55mOhm(15A)		1 → Gate 2 → Drain 3 → Sourc 4 →
MOS FET Canal P	2SJ295, 2SJ323	Uso diverso		
<a href="#">2SJ340</a>		60V, 30A, 70W, <40mOhm(15A)		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal P	2SJ280	Uso diverso		
<a href="#">2SJ341</a>		20V, 5A, 12W, <0,12Ohm(3A)		1 → Sourc 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	2SJ250, 2SJ300	Uso diverso		

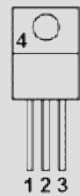

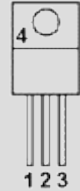
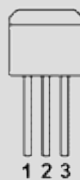
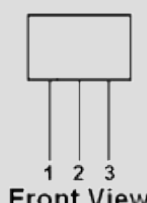
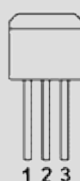
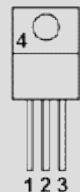
<a href="#">2SJ342</a>		50V, 0,05A, <50Ohm  Diodo interno ( Gate->Source )		1 → Drain 2 → Sourc 3 → Gate 4 →
<a href="#">2SJ343</a>		=2SJ342, SMD  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ344</a>		=2SJ342, SMD  SMD (2mm)		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ345</a>		20V, 0,05A, <40Ohm  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ346</a>		=2SJ345  SMD (2mm)		1 → Sourc 2 → Gate 3 → Drain 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ347</a>		=2SJ345  SMD (1,6mm)		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ348</a>	2SJ292	60V, 30A, 70W, <0,04Ohm(15A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ349</a>	2SJ177, 2SJ294, 2SJ322, 2SJ374	60V, 20A, 35W, <45mOhm(10A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →

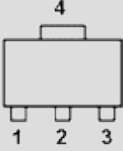

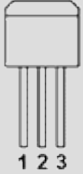
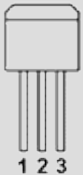
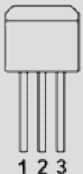
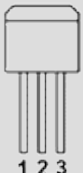
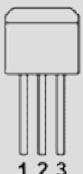
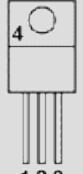


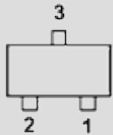
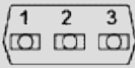
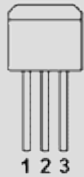
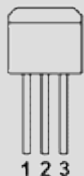
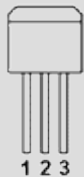
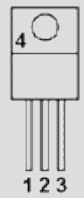
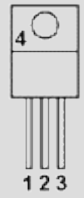
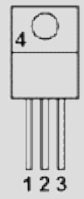
Diodo				
<a href="#">2SJ350</a>		120V, 6A, 20W, <0,7Ohm(4A)		1 → Gate 2 → Drain 3 → Source 4 →
MOS FET Canal P + Diodo	-	Uso diverso		
<a href="#">2SJ351</a>		180V, 8A, 100W, 320/120ns		1 → Gate 2 → Source 3 → Drain 4 →
MOS FET Canal P + Diodo	-	Audio / potência		
<a href="#">2SJ352</a>		=2SJ351, 200V		1 → Gate 2 → Source 3 → Drain 4 →
MOS FET Canal P + Diodo	-	Audio / potência		
<a href="#">2SJ353</a>		60V, +-1,5A, 1W, <0,37Ohm(1A)		1 → Gate 2 → Drain 3 → Source 4 →
MOS FET Canal P + Diodo	-	Uso diverso	Visualização frontal	
<a href="#">2SJ355</a>	2SJ356	30V, +-2A, <0,35Ohm(1A)		1 → Source 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo		SMD		
<a href="#">2SJ356</a>		60V, +-2A, <0,5Ohm(1A)		1 → Source 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo	-	SMD		
<a href="#">2SJ357</a>	2SJ358	30V, +-3A, <0,2Ohm(1,5A)		1 → Source 2 → Drain 3 → Gate 4 →
MOS FET Canal P + Diodo		SMD		

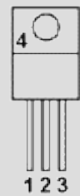
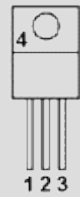
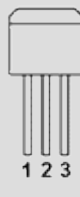
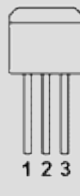
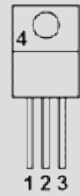
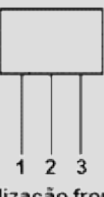
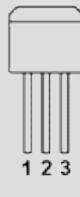
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2SJ358</a>  MOS FET Canal P + Diodo	-	60V, +-3A, <0,3Ohm(1,5A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ359</a>  MOS FET Canal P + Diodo	-	60V, 5A, <0,25Ohm(2,5A)  Uso diverso		1 → 2 → 3 → 4 →
<a href="#">2SJ360</a>  MOS FET Canal P + Diodo	2SJ190, 2SJ238, 2SJ278, 2SJ450	60V, 1A, <0,73Ohm(0,5A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ361</a>  MOS FET Canal P + Diodo	-	20V, 2A, <0,4Ohm(1A) integr. Rg  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ362</a>  MOS FET Canal P	2SJ191, 2SJ194	60V, 2A, 20W, <0,4Ohm(1A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ363</a>  MOS FET Canal P + Diodo	(2SJ355...356)	30V, 2A, <0,45Ohm(1A) integr. Rg  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ365</a>  MOS FET Canal P	2SJ191, 2SJ223	60V, 2A, 10W, <0,45Ohm, 60/160ns  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

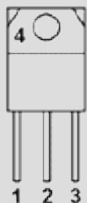
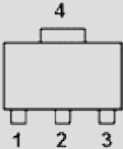
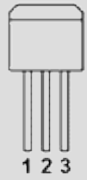
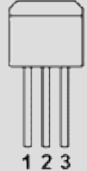
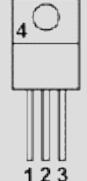
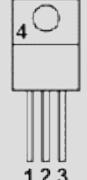
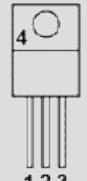

<a href="#">2SJ366</a>	2SJ192, 2SJ245, 2SJ279	60V, 5A, 15W, <0,25Ohm, 70/270ns Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ367</a>	2SJ214	60V, 5A, 30W, <0,25Ohm, 70/270ns Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ368</a>	2SJ248	=2SJ367, 20W Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ369</a>	2SJ219, 2SJ296	60V, 10A, 40W, <0,16Ohm, 100/320ns Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ370</a>	2SJ236, 2SJ293, 2SJ321	=2SJ369, 25W Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ371</a>	2SJ219, 2SJ296	60V, 15A, 50W, <0,1Ohm, 130/460ns Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ372</a>	2SJ237, 2SJ293, 2SJ321	=2SJ371 Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ373</a>	2SJ220, 2SJ297	60V, 20A, 60W, <0,07Ohm, 175/660ns Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

<a href="#">2SJ374</a>	2SJ294, 2SJ322, 2SJ374	=2SJ373  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ375</a>	-	60V, 30A, 60W, <45mOhm, 270/1020ns  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ376</a>	2SJ295, 2SJ323	=2SJ375  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ377</a>	2SJ192, 2SJ195, 2SJ245, 2SJ327	60V, 5A, 20W, <0,19Ohm(2,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ378</a>	-	=2SJ377, 1,2W  Uso diverso		1 → 2 → 3 → 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ379</a>	-	100V, 8A, 15W, <0,21Ohm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ380</a>	2SJ222	100V, 12A, 35W, <0,21Ohm(6A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →

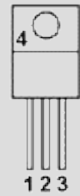


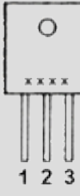
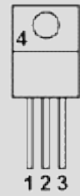
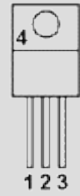
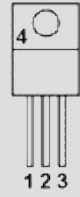
<a href="#">2SJ381</a>	2SJ355...356	12V, 2A, <0,4Ohm(0,5A) SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ382</a>	2SJ192, 2SJ245, 2SJ327	12V, 4A, 20W, <177mOhm(1A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ383</a>	2SJ389	12V, 8A, 30W, <82mOhm(2A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ384(L,S)</a>	2SJ268	60V, 15A, 50W, <0,1Ohm(8A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ387(L,S)</a>	2SJ388...389	20V, 10A, 20W, <70mOhm(5A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ388(L,S)</a>	2SJ389	30V, 10A, 20W, <80mOhm(5A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ389(L,S)</a>	-	60V, 10A, 30W, <135mOhm(5A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ390</a>	2SJ175...176, 2SJ236	60V, 10A, 25W, <0,12Ohm(5A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →


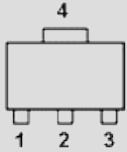
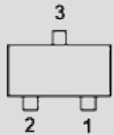
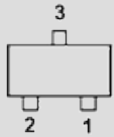
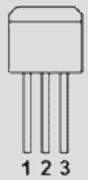
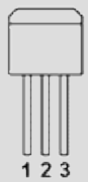
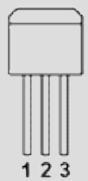
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ399</a>  MOS FET Canal P + Diodo	-	30V, 0,2A, <7Ohm(10mA) integr. Rg  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ40</a>  FET Canal P	-	50V, Idss=0,6..12mA, Up<6V  Uso diverso		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ400</a>  MOS FET Canal P	2SJ280	30V, 35A, 70W, <35mOhm  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ401</a>  MOS FET Canal P + Diodo	2SJ220, 2SJ241, 2SJ297, 2SJ409	60V, 20A, 100W, <45mOhm(10A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ402</a>  MOS FET Canal P + Diodo	2SJ280	60V, 30A, 100W, <38mOhm(15A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ403</a>  MOS FET Canal P	2SJ320	200V, 5A, 25W, <1,1Ohm(2,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ404</a>  MOS FET Canal P	-	200V, 6A, 25W, <0,8Ohm(3A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ405</a>  MOS FET Canal P	-	200V, 8A, 30W, <0,5Ohm(4A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →


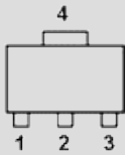
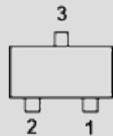
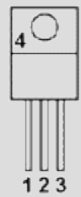
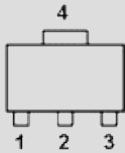

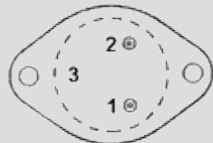
<a href="#">2SJ406</a>	-	200V, 12A, 40W, <0,23Ohm Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ407</a>	2SJ320, 2SJ403, 2SJ410	200V, 5A, 30W, <1Ohm(2,5A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ408(L,S)</a>	-	60V, 50A, 100W, <0,02Ohm(25A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ409(L,S)</a>	-	100V, 20A, 75W, <0,16Ohm(10A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ410(L,S)</a>	2SJ307, 2SJ405	200V, 6A, 30W, <0,85Ohm(3A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ411</a>	2SJ183, 2SJ192, 2SJ245, 2SK279, 2SJ327	30V, +-5A, 1W, <0,24Ohm(2,5A) Uso diverso	 Visualização frontal	1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ412</a>	-	200V, 16A, 60W, <0,21Ohm(6A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain

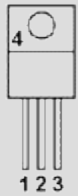
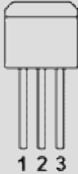
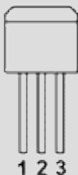
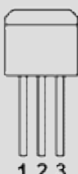
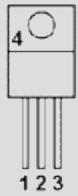
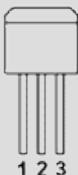

<a href="#">2SJ413</a>	2SJ218	60V, 50A, 70W, <0,02Ohm Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ416</a>	2SJ356	30V, 2A, <0,44Ohm(1A) SMD		1 → Source 2 → Drain 3 → Gate 4 →
<a href="#">2SJ417</a>	2SJ192, 2SJ245, 2SJ279	30V, 4A, 20W, <0,16Ohm SMD		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ418</a>	-	30V, 8A, 30W, <0,08Ohm SMD		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ424</a>	2SJ135, 2SJ154, 2SJ158, 2SJ272	60V, +-5A, 25W, <0,5Ohm(2,5A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ425</a>	2SJ137, 2SJ147, 2SJ175, 2SJ236, 2SJ390	60V, +-8A, 30W, <0,28Ohm(4A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ426</a>	2SJ141, 2SJ143, 2SJ265, 2SJ321, 2SJ329	60V, +-15A, 35W, <0,14Ohm(8A) Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ43</a>	2SJ129	50V, Idss=0,5..12mA, Up<3V Uso geral		1 → Source 2 → Gate 3 → Drain 4 →

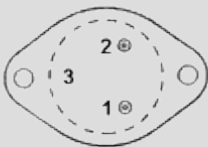
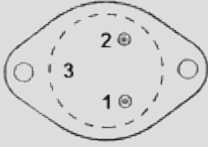





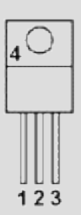


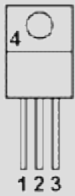
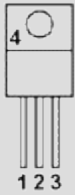
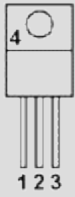
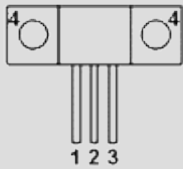
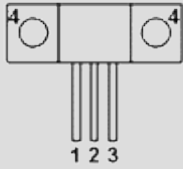
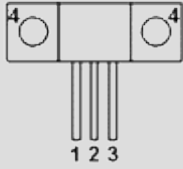
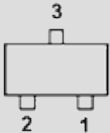
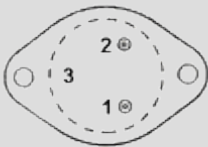
<a href="#">2SJ438</a>	MOS FET Canal P + Diodo	2SJ263, 2SJ272, 2SJ274	60V, 5A, 25W, <0,19Ohm(2,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ439</a>	MOS FET Canal P + Diodo	2SJ183, 2SJ192, 2SJ239	16V, 5A, 20W, <0,20Ohm(2,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ44</a>	FET Canal P	2N5021, 2SJ74	40V, Idss=1..18mA, Up<1,5V  Uso geral / baixo ruído		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">2SJ440</a>	MOS FET Canal P + Diodo	-	180V, 9A, 80W  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ443</a>	MOS FET Canal P + Diodo	2SJ175...176, 2SJ236, 2SJ390	60V, 10A, 25W, <0,18Ohm(5A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ448</a>	MOS FET Canal P + Diodo	2SJ320	250V, +-4A, 30W, <20Ohm(2A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ449</a>	MOS FET Canal P + Diodo	2SJ307...308	250V, +-6A, 35W, <0,80Ohm(3A)  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 →

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">2SJ45</a>  FET Canal P	2N5021, 2SJ74	40V, $I_{dss}=1..18mA$ , $U_p<1,5V$  Uso geral / baixo ruído		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">2SJ450</a>  MOS FET Canal P + Diodo	2SJ190, 2SJ278	60V, 1A, $<1,2\Omega(0,5A)$  SMD		1 → Source 2 → Drain 3 → Gate 4 →
<a href="#">2SJ451</a>  MOS FET Canal P + Diodo	-	20V, 0,2A, $<3,5\Omega(0,1A)$ integr. R <sub>g</sub>  SMD		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">2SJ452</a>  MOS FET Canal P + Diodo	-	50V, 0,2A, $<7\Omega(0,1A)$ integr. R <sub>g</sub>  SMD		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">2SJ453</a>  MOS FET Canal P	2SJ281	250V, 3A, 30W, $<2,6\Omega(1,5A)$  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ457</a>  MOS FET Canal P	-	450V, 0,5A, 30W, $<15\Omega(0,3A)$  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ458</a>  MOS FET Canal P	-	450V, 2A, 60W, $<5,5\Omega(1A)$  Uso diverso		1 → Gate 2 → Drain 3 → Source 4 → Drain

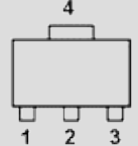
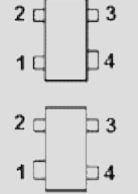
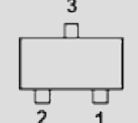
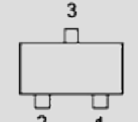
<a href="#">2SJ459</a>	-	450V, 4A, 70W, <2,80hm(2A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ462</a>	2SJ356, 2SJ358	12V, +-2,5A, <0,290hm  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ463</a>	-	30V, +-0,1A, <600hm(1mA)  SMD (2mm)		1 → 2 → 3 → 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ464</a>	-	100V, 18A, 45W, <0,120hm(9A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 →
<a href="#">2SJ465</a>	2SJ356	16V, 2A, <0,710hm(1A)  SMD		1 → Sourc 2 → Drain 3 → Gate 4 →
<a href="#">2SJ467</a>	-	30V, 8A, 30W, <0,10hm  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ47</a>	2SJ55...56, 2SJ160...162	100V, 7A, 100W, 25/24ns, <1,70hm  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →

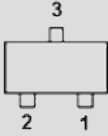
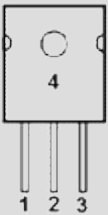
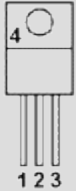
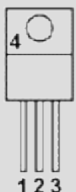
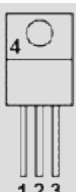
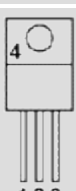
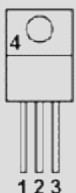
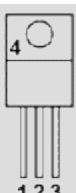
<a href="#">2SJ471</a>		30V, 30A, 30W, <35mOhm(15A)		1 → Gate 2 → Drain 3 → Source 4 →
<a href="#">2SJ472-01(L,S)</a>	2SJ183, 2SJ192, 2SK239, 2SJ245	30V, 5A, 15W, <0,40hm		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ473-01(L,S)</a>	-	60V, 7A, 20W, <0,20hm		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ474-01(L,S)</a>	2SJ266	60V, 7A, 20W, <0,20hm		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ475-01</a>	2SJ174, 2SJ221, 2SJ291, 2SJ328	60V, 25A, 50W, <0,60hm		1 → Gate 2 → Drain 3 → Source 4 → Drain
<a href="#">2SJ476-01</a>	2SJ409	60V, 25A, 50W, <0,60hm		1 → Gate 2 → Drain 3 → Source 4 → Drain
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ51</a>	2SJ70	40V, Idss=6..50mA, Up<1,1V		1 → Source 2 → Gate 3 → Drain 4 →
MOS FET Canal P + Diodo	2SJ295, 2SJ323	Uso diverso		
MOS FET Canal P		Uso diverso		
MOS FET Canal P		Uso diverso		
MOS FET Canal P		Uso diverso		
MOS FET Canal P		Uso diverso		

<a href="#">2SJ55</a>	-	180V, 8A, 125W, <1,7Ohm  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">2SJ56</a>	-	=2SJ55, 200V  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">2SJ68</a>	2SJ104, 2SJ107...108	40V, Idss=1,6..12mA, Up<1,5V  Audio / chaveamento / baixo ruído		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ69</a>	2SJ104, 2SJ107...108	40V, Idss=2,5..20mA, Up<1,5V  Audio / chaveamento / baixo ruído		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ70</a>	2SJ51	40V, Idss=6..50mA, Up<1,5V  Audio / chaveamento / baixo ruído		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ72</a>	2SJ110...111	25V, Idss=5..30mA, Up<2V  Uso geral		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ74</a>	2N5021	25V, Idss>1mA, Up<2V  Uso geral		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">2SJ76</a>	-	140V, 0,5A, 30W, 20/30ns, 10Ohm  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →

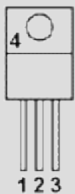
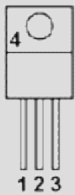
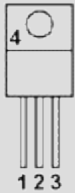
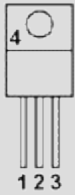
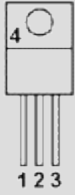
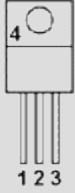
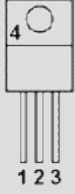
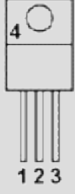
<a href="#">2SJ77</a>		=2SJ76, 160V  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">2SJ78</a>		=2SJ76, 180V  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">2SJ79</a>		=2SJ76, 200V  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">2SJ81</a>	2SJ99...100	120V, 7A, 100W, <1,7Ohm,230/110ns  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">2SJ82</a>	2SJ99...100	=2SJ81, 140V  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">2SJ83</a>	2SJ100	=2SJ81, 160V  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">2SJ84</a>	-	15V, Idss=0,5..12mA, Up<3V  SMD		1 → Drain 2 → Sourc 3 → Gate 4 →
<a href="#">2SJ91</a>	2SJ114...115, 2SJ118...119, 2SJ55...56	140V, 8A, 120W  Potência		1 → Sourc 2 → Gate 3 → Drain 4 →

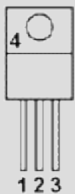
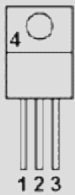
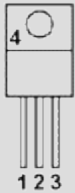
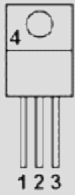
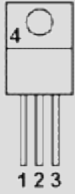
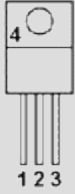
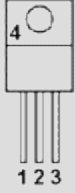
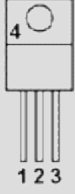
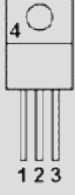
<a href="#">2SJ92</a>	2SJ114...115, 2SJ118...119	=2SJ91, 7A, 100W  Potência		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">2SJ96</a>	2SJ81...83, 2SJ99...100	60V, 8A, 100W, <0,8Ohm, 100/250ns  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">2SJ99</a>	2SJ82...83	140V, 8A, 100W, <0,5Ohm, 100/90ns  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

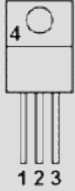
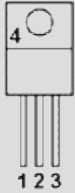
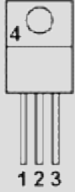
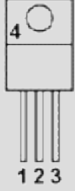
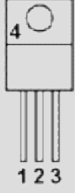
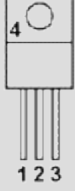
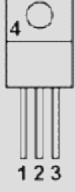
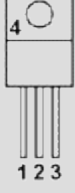
REFERÊNCIA	EQUIVALENTE S	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">ALR</a>	=2SA1900	=2SA1900-R  SMD		Sem Pinout
<a href="#">ALs</a>	=BFP 405	=BFP 405  SMD (2mm)		Sem Pinout
<a href="#">ALY</a>	=KTC 3875	=KTC3875-Y  SMD		Sem Pinout
<a href="#">BAL74</a>	BAR 74	50V, 0,25A, <4ns  SMD		1 → A 2 → 3 → K 4 → K

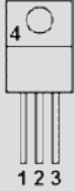
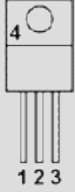
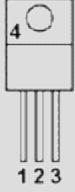
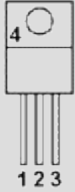
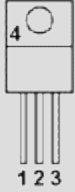
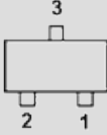


<a href="#">BAL99</a> Diodo Silício	BAR 99	70V, 0,25A, <6ns SMD		1 → K 2 → 3 → A 4 → A
<a href="#">BU2530AL</a> NPN Silício	2SC3996, 2SC4289A	1500/800V, 16A, 125W Deflexão horizontal TVC		1 → B 2 → C 3 → E 4 → C
<a href="#">BUZ102AL</a> MOS FET Canal N	-	=BUZ 102, <28mOhm(21A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">BUZ103AL</a> MOS FET Canal N	BUZ 102L, 2SK1542, 2SK1911	=BUZ 103, 35A, <0,05(17,5A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">BUZ11AL</a> MOS FET Canal N	2SK942, 2SK972, 2SK1115, 2SK1910	=BUZ 11, 20A, 35W Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">BUZ12AL</a> MOS FET Canal N	2SK1542, 2SK1911	=BUZ 12, <35mOhm(21A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">NDP506AL,BL</a> MOS FET Canal N	BUK 555-60, 2SK1291, 2SK1296, 2SK2411	=NDP 506A,B Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">NDP603AL</a> MOS FET Canal N	BUK 555-50, 2SK1291, 2SK1296, 2SK2411	30V, 25A, 50W, <22mOhm(25A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

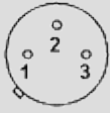
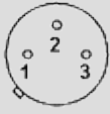




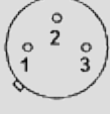



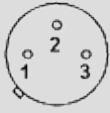
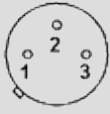

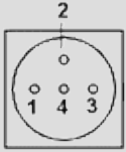





<a href="#">TXAL1110B..3810</a> <b>B</b>  Triac	TAG 456-..., TAG 480-..., TAG 481-...	=TYAL 1110B..3810B  Uso diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL1110C..3810</a> <b>C</b>  Triac	TAG 456-..., TAG 480-..., TAG 481-...	=TYAL 1110B..3810B, Igt/Ih <60/<20mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL1110M..3810</a> <b>M</b>  Triac	TAG 456-..., TAG 480-..., TAG 481-...	=TYAL 1110B..3810B, Igt/Ih <100/<50mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL1115B..3815</a> <b>B</b>  Triac	MAC 15-..., TIC 246..., T 6001...	=TYAL 1115B..3815B  Uso diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL1115M..3815</a> <b>M</b>  Triac	MAC 15-..., TIC 246..., T 6001...	=TYAL 1115B..3815B, Igt/Ih <100/50mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL116B..386B</a>   Triac	TAG 425-..., TAG 451-..., TAG 456-...	=TYAL 116B..386B  Uso diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL116C..386C</a>   Triac	TAG 425-..., TAG 451-..., TAG 456-...	=TYAL 116B..386B, Igt/Ih <60/<20mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL116M..386M</a>   Triac	TAG 425-..., TAG 451-..., TAG 456-...	=TYAL 116B..386B, Igt/Ih <100/<50mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

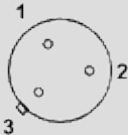
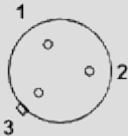
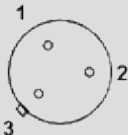
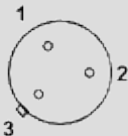
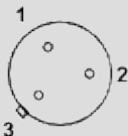
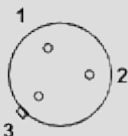

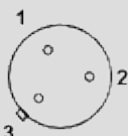
<a href="#">TXAL118B..388B</a>	Triac	TAG 425-..., TAG 451-..., TAG 456-...	=TYAL 118B..388B  Usò diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL118C..388C</a>	Triac	TAG 425-..., TAG 451-..., TAG 456-...	=TYAL 118B..388B, Igt/Ih <60/<20mA  Usò diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TXAL118M..388M</a>	Triac	TAG 425-..., TAG 451-..., TAG 456-...	=TYAL 118B..388B, Igt/Ih <100/<50mA  Usò diverso		1 → A1 2 → A2 3 → Gate 4 →
<a href="#">TYAL1110B</a>	Triac	TW 9N..., TXD 10K/L...M, TIC 236...	200V, 10A(Tc=75°C), Igt/Ih <50/<50mA  Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL1110C..3810C</a>	Triac	TAG 250-..., TAG 251-..., BT 138/...	=TYAL 1110B..3810B, Igt/Ih <60/<20mA  Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL1110M..3810M</a>	Triac	TW 9N..., TXD 10K/L...M, TIC 236...	=TYAL 1110B..3810B, Igt/Ih <100/<50mA  Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL1115B</a>	Triac	MAC 15-..., TIC 246..., T 6001...	200V, 15A(Tc=65°C), Igt/Ih <50/<50mA  Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL1115M..3815M</a>	Triac	MAC 15-..., TIC 246..., T 6001...	=TYAL 1115B..3815B, Igt/Ih <100/50mA  Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL116B</a>	Triac	TXC 10K/L...M, TW 7N..., MAC 222-...	200V, 6A(Tc=75°C), Igt/Ih <50/<50mA  Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2

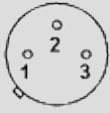
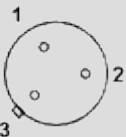
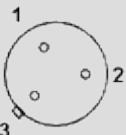
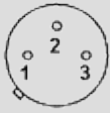
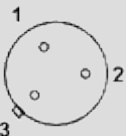
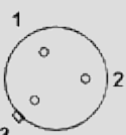
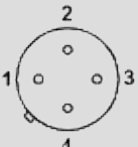
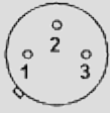
<a href="#">TYAL116C..386C</a>	TXC 10H...M, TAG 224-..., MAC 222A-...	=TYAL 116B..386B, Igt/Ih <60/<25mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TYAL116M..386M</a>	TXC 10H...M, TAG 224-..., MAC 222A-...	=TYAL 116B..386B, Igt/Ih <100/<50mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL118B</a>	MAC 222-..., TIC 226..., T 2802...	200V, 8A(Tc=75°C), Igt/Ih <50/<50mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL118C..388C</a>	TAG 224-..., MAC 222A-..., BT 137/...	=TYAL 118B..388B, Igt/Ih <60/<20mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL118M..388M</a>	MAC 222-..., TIC 226..., T 2802...	=TYAL 118B..388B, Igt/Ih <100/<50mA  Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL2210B</a>	TW 9N..., TXD 10K/L...M, TIC 236...	=TYAL 1110, 400V  Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL2215B</a>	MAC 15-..., TIC 246..., T 6001...	=TYAL 1115B, 400V  Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL226B</a>	TXC 10K/L...M, TW 7N..., MAC 222-...	=TYAL 116B, 400V  Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2

<a href="#">TYAL228B</a>	MAC 222-..., TIC 226..., T 2802...	=TYAL 118B, 400V Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL3810B</a>	TW 9N..., TXD 10K/L...M, TIC 236...	=TYAL 1110, 700V Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL3815B</a>	MAC 15-..., TIC 246..., T 6001...	=TYAL 1115B, 700V Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TYAL386B</a>	TXC 10K/L...M, TW 7N..., MAC 222-...	=TYAL 116B, 700V Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">TYAL388B</a>	MAC 222-..., TIC 226..., T 2802...	=TYAL 118B, 700V Uso diverso		1 → A1 2 → A2 3 → Gate 4 → A2
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">ASY</a>	=KTA 1504	=KTA1504-Y SMD		Sem Pinout
<a href="#">ASY10</a>	AC 125, AC 126, AC 151	32V, 0,3A, B=30..50 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY11</a>	AC 125, AC 126, AC 151	=ASY 10, B=40..70 Audio / chaveamento		1 → E 2 → B 3 → C 4 →

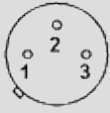
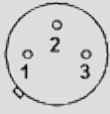

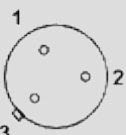
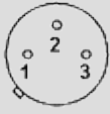



<a href="#">ASY12</a> PNP Germânico	AC 128, AC 153, ASY 48, ASY 76	32V, 0,6A, 0,135W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY13</a> PNP Germânico	ASY 48, ASY 76	60V, 0,6A, 0,135W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY14</a> PNP Germânico	-	80V, 0,25A, 0,13W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY23</a> PNP Germânico	-	80V, 0,3A, 0,85W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY24</a> PNP Germânico	ASY 48, ASY 77	50V, 0,25A, 0,1W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY24B</a> PNP Germânico	AC 125, AC 126, AC 151, ASY 48, ASY 76	=ASY 24, 35V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY25</a> PNP Germânico	AC 128, AC 153	32V, 0,3A, 0,15W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">ASY26</a> PNP Germânico	ASY 48, ASY 76	30V, 0,2A, 0,15W Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →









<a href="#">ASY27</a> PNP Germânico	ASY 48, ASY 76	25V, 0,2A, 0,15W Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY28</a> NPN Germânico	ASY 73...75	30V, 0,2A, 0,15W Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY29</a> NPN Germânico	ASY 73...75	25V, 0,2A, 0,15W Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY30</a> PNP Germânico	ASY 48, ASY 77	50V, 0,25A, 0,2W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY31</a> PNP Germânico	ASY 26, ASY 27, ASY 48, ASY 76	25V, 0,2A, 0,125W, B=30..80 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY32</a> PNP Germânico	ASY 26, ASY 27, ASY 48, ASY 76	=ASY 31, B=50..150 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY33</a> PNP Germânico	AC 125, AC 126, AC 151, ASY 48, ASY 76	32V, 0,3A, 0,15W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY37</a> PNP Germânico	ASY 48, ASY 77	64V, 0,3A, 0,15W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY48</a> PNP Germânico	ASY 77	64V, 0,3A, 0,22W Audio / chaveamento		1 → E 2 → B 3 → C 4 →








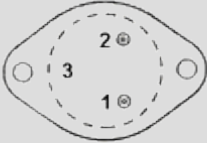
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">ASY49</a>  PNP Germânico	-	100V, 0,25A, 0,09W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY50</a>  PNP Germânico	AC 128, AC 153, AC 188	20V, 0,5A, 0,06W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY51</a>  PNP Germânico	ASY 48, ASY 77	60V, 0,25A, 0,09W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY52</a>  PNP Germânico	ASY 48, ASY 77	60V, 0,25A, 0,09W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY53</a>  NPN Germânico	AC 127, AC 176, AC 187, ASY 29, ASY 73	20V, 0,25A, 0,06W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY54</a>  PNP Germânico	AC 128, AC 153	30V, 0,5A, 0,2W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY54N</a>  PNP Germânico	AC 128, AC 153	=ASY 54, 0,15W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY55</a>  PNP Germânico	AC 128, AC 153, AC 188	20V, 0,5A, 0,2W  Audio / chaveamento		1 → E 2 → B 3 → C 4 →

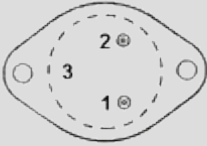
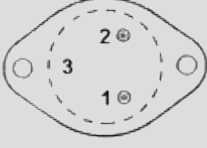
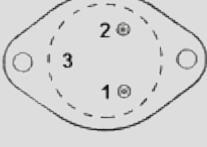


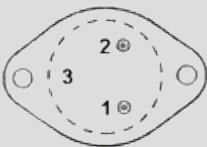
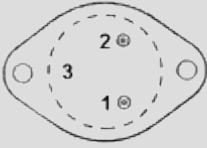
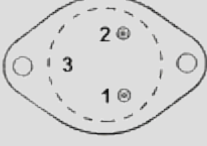
<a href="#">ASY55N</a> PNP Germânico	AC 128, AC 153, AC 188	=ASY 55, 0,15W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY56</a> PNP Germânico	AC 125, AC 126, AC 151	20V, 0,2A, 0,2W, B=26..60 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">ASY63</a> PNP Germânico	AC 125, AC 126, AC 151	26V, 0,2W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY63N</a> PNP Germânico	AC 125, AC 126, AC 151	=ASY 63, 0,075W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY64</a> PNP Germânico	AC 125, AC 126, AC 151	30V, 0,2W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY66</a> PNP Germânico	AC 125, AC 126, AC 151	30V, 0,2W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY67</a> PNP Germânico	AFY 18, AFY 19	50V, 0,05A, 150MHz RF / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY68</a> PNP Germânico	ASY 26...27	12V, 0,1A, 0,075W Audio / chaveamento		1 → E 2 → B 3 → C 4 →

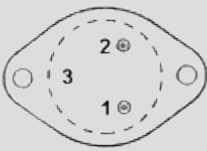






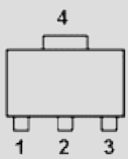
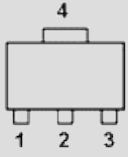
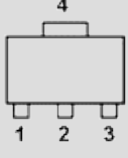
<a href="#">ASY69</a> PNP Germânico	ASY 26...27	20V, 0,35A, 0,075W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY70</a> PNP Germânico	AC 128, AC 153, ASY 26, ASY 48, ASY 76	20V, 0,35A, 0,075W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY71</a> PNP Germânico	-	100V, 0,1A, 0,15W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY72</a> NPN Germânico	AC 127, AC 176, AC 187, ASY 29, ASY 75	20V, 0,25A, 0,1W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">ASY73</a> NPN Germânico	-	30V, 0,4A, 0,085W, >4MHz Chaveamento / Audio (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY74</a> NPN Germânico	-	=ASY 73, >6MHz Chaveamento / Audio (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY75</a> NPN Germânico	-	=ASY 73, >10MHz Chaveamento / Audio (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY76</a> PNP Germânico	AC 128, AC 153, ASY 48	40V, 0,5A, 0,16W Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →

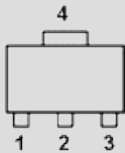
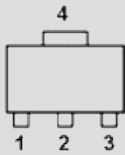
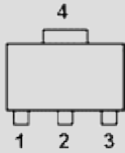
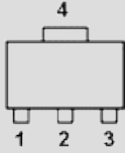
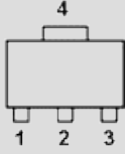
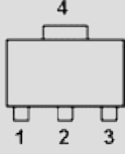
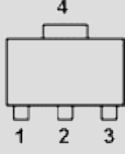
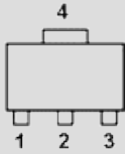
<a href="#">ASY77</a> PNP Germânico	ASY 48	=ASY 76, 60V Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY78(T)</a> PNP Germânico	-	40V, 0,4A, 0,125W, 40MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY80</a> PNP Germânico	AC 128, AC 153, ASY 48, ASY 76	40V, 0,5A, 0,16W Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY81</a> PNP Germânico	ASY 48, ASY 77	60V, 0,5A, 0,15W Audio / chaveamento (B=invólucro)		1 → E 2 → B 3 → C 4 →
<a href="#">ASY82</a> PNP Germânico	AC 128, AC 153, AC 188	26V, 0,5A, 0,2W, B=30..130 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY83</a> PNP Germânico	AC 128, AC 153, AC 188	=ASY 82, B=70..320 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">ASY84</a> PNP Germânico	AC 128, AC 153	40V, 0,5A, 0,2W, B=30..130 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY85</a> PNP Germânico	AC 128, AC 153	=ASY 84, B=70..320 Audio / chaveamento		1 → E 2 → B 3 → C 4 →

<a href="#">ASY86</a> NPN Germânico	AC 127, AC 176, AC 187	16V, 0,5A, 0,2W, B=25..120 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY87</a> NPN Germânico	AC 127, AC 176, AC 187	=ASY 86, B=60..295 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY88</a> NPN Germânico	AC 127, AC 176, AC 187	26V, 0,5A, 0,2W, B=25..120 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY89</a> NPN Germânico	AC 127, AC 176, AC 187	=ASY 88, B=60..295 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY90</a> PNP Germânico	AC 125, AC 126, AC 151, ASY 48, ASY 76	40V, 0,25A, 0,185W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASY91</a> PNP Germânico	AC 125, AC 126, AC 151, ASY 48, ASY 76	=ASY 90, 25V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">ASZ10</a> PNP Germânico	ASY 48, ASY 77	50V, 0,25A, 0,15W Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ1015</a> PNP Germânico	AUY 37, 2N2527	80V, 6A, 22,5W Chaveamento / potência		1 → E 2 → B 3 → C 4 →

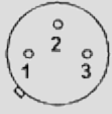
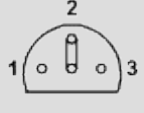
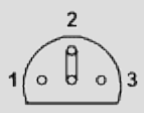
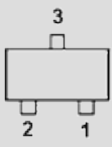
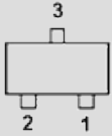
<a href="#">ASZ1016</a>	AUY 21, 2N2526	60V, 6A, 22,5W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ1017</a>	AUY 21, 2N2526	60V, 6A, 22,5W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ1018</a>	AUY 37, 2N2527	80V, 6A, 22,5W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ11</a>	AC 125, AC 126, AC 151, ASY 48, ASY 76	20V, 0,2A, 0,125W, B>40 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ12</a>	AC 125, AC 126, AC 151, ASY 48, ASY 76	=ASZ 11, B>60 Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ15</a>	AUY 37, 2N2527	100V, 8A, 30W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ16</a>	AUY 21, 2N2526	60V, 8A, 30W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ17</a>	AUY 21, 2N2526	60V, 8A, 30W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

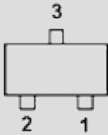
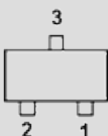
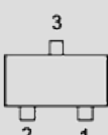
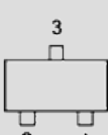
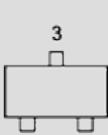
<a href="#">ASZ18</a>	AUY 37, 2N2527	100V, 8A, 30W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ20</a>	AF 202S/L	40V, 25mA, 100MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ21</a>	2N2635, 2N2955...2957	20V, 30mA, >300MHz, 50/80ns Chaveamento rápido		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ23</a>	-	30V, 0,1A, 0,05W Chaveamento rápido		1 → E 2 → B 3 → C 4 →
<a href="#">ASZ30</a>	ASY 48, ASY 77	50V, 0,25A, 0,03W, 20MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →

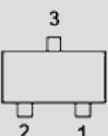

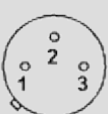
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">BCP</a>	=2SB1188	=2SB1188-P SMD		Sem Pinout
<a href="#">BCP28</a>	-	=BCV 26, 1,5W SMD		1 → B 2 → C 3 → E 4 → C
<a href="#">BCP29</a>	-	=BCV 27, 1,5W SMD		1 → B 2 → C 3 → E 4 → C

<a href="#">BCP48</a>	-	=BCV 46, 1,5W SMD		1 → B 2 → C 3 → E 4 → C
<a href="#">BCP49</a>	-	=BCV 47, 1,5W SMD		1 → B 2 → C 3 → E 4 → C
<a href="#">BCP51</a>	-	=BCX 51, 1,5W SMD		1 → B 2 → C 3 → E 4 → C
<a href="#">BCP52</a>	-	=BCX 52, 1,5W SMD		1 → B 2 → C 3 → E 4 → C
<a href="#">BCP53</a>	-	=BCX 53, 1,5W SMD		1 → B 2 → C 3 → E 4 → C
<a href="#">BCP54</a>	-	=BCX 54, 1,5W SMD		1 → B 2 → C 3 → E 4 → C
<a href="#">BCP55</a>	-	=BCX 55, 1,5W SMD		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BCP56</a>	-	=BCX 56, 1,5W SMD		1 → B 2 → C 3 → E 4 → C









<a href="#">BCP68</a>	-	=BCX 68, 1,5W		1 → B 2 → C 3 → E 4 → C
NPN Silício		SMD		
<a href="#">BCP69</a>	-	=BCX 69, 1,5W		1 → B 2 → C 3 → E 4 → C
PNP Silício		SMD		

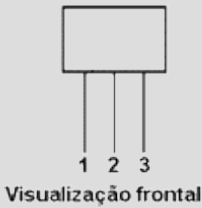
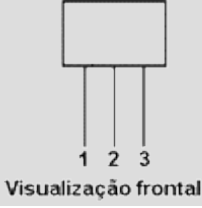
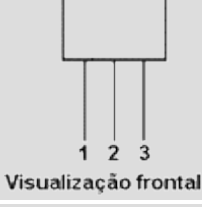
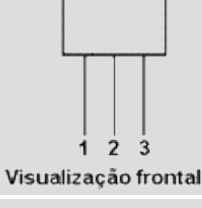
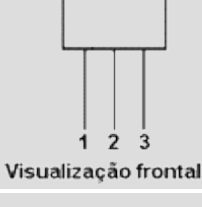
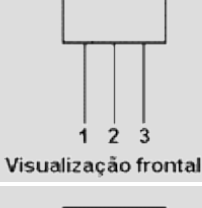
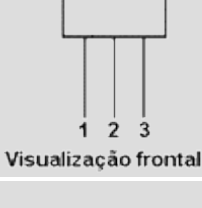
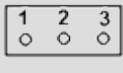

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">BCX10</a>	BC 161, BC 303...304, BCX 60, BSV 16...17	50V, 0,6A, 0,6W, 90MHz Audio / chaveamento		Sem Pinout
<a href="#">BCX12</a>	2SC4488, 2SD1312, 2SD1616A, 2SD1857	125V, 0,8A, 0,625W, 100MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX13</a>	2SA1708, 2SB984, 2SB1236, 2SB1456	125V, 0,8A, 0,625W, 120MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX17</a>	BC 807, BCW 68, BCX 42, 2SA1366	50V, 0,5A, 100MHz SMD		1 → E 2 → B 3 → C 4 →
<a href="#">BCX17R</a>	BC 807R, BCW 68R, BCX 42R	=BCX 17 SMD		1 → B 2 → E 3 → C 4 →
PNP Silício				


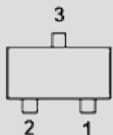
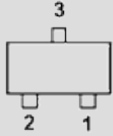
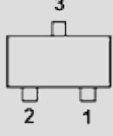
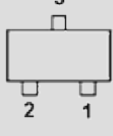


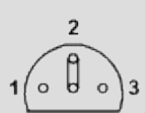
<a href="#">BCX18</a> PNP Silício	BC 807...808, BCW 67...68, 2SA1366	=BCX 17, 30V  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">BCX18R</a> PNP Silício	BC 807R...808R, BCW 67R...68R	=BCX 18  SMD		1 → B 2 → E 3 → C 4 →
<a href="#">BCX19</a> NPN Silício	BC 817, BCW 65...66, BCX 41, 2SC3441	50V, 0,5A, 200MHz  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">BCX19R</a> NPN Silício	BC 817R, BCW 65R...66R, BCX 41R	=BCX 19  SMD		1 → B 2 → E 3 → C 4 →
<a href="#">BCX20</a> NPN Silício	BC 817...818, BCW 65...66, 2SC3441	=BCX 19, 30V  SMD		1 → E 2 → B 3 → C 4 →

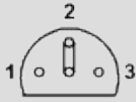
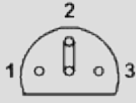
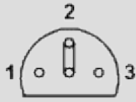


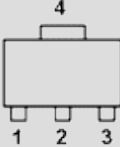
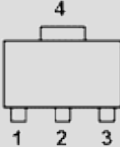
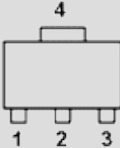
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">BCX20R</a> NPN Silício	BC 817R...818R, BCW 65R...66R	=BCX 20  SMD		1 → B 2 → E 3 → C 4 →
<a href="#">BCX21</a> Darlington NPN Silício	BSS 50...52, 2SD614...615, 2SD688	60V, 1A, 0,65W, 350MHz, B>2000  Audio / chaveamento		Sem Pinout
<a href="#">BCX22</a> NPN Silício	2N3700...3701, 2SC2235, 2SD667	125V, 0,8A, 0,45W, 100MHz  Pré, entrada e driver de audio		Sem Pinout

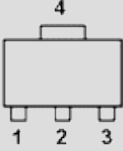
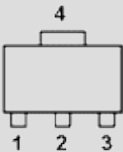
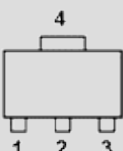
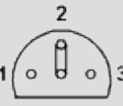



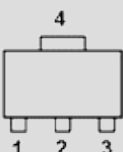


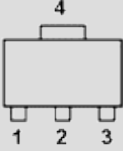
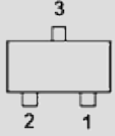
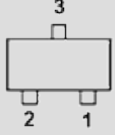
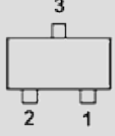
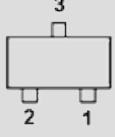
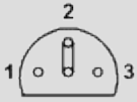


<a href="#">BCX23</a> PNP Silício	2N5400...5401, 2SA965, 2SB647	125V, 0,8A, 0,45W, 100MHz Pré, entrada e driver de audio		Sem Pinout
<a href="#">BCX24</a> NPN Silício	BC 639, 2N3700...3701, 2SC2235, 2SD667	100V, 0,8A, 0,45W, 100MHz Pré, entrada e driver de audio		Sem Pinout
<a href="#">BCX25</a> NPN Silício	BC 174, BC 182, BC 190, BC 546	60V, 0,2A, 0,35W, >100MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX26</a> PNP Silício	BC 212, BC 256, BC 266, BC 556	60V, 0,2A, 0,35W, >100MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX27</a> NPN Silício	BC 546, 2SC2240, 2SC2459, 2SC3245	=BCX 25, 80V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX28</a> PNP Silício	BC 556, 2SA970, 2SA1049, 2SA1285	=BCX 26, 80V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX29</a> NPN Silício	2SC2240, 2SC2459, 2SC3245	=BCX 25, 100V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BCX30</a> PNP Silício	2SA970, 2SA1049, 2SA1285	=BCX 26, 100V Audio / chaveamento		1 → E 2 → B 3 → C 4 →

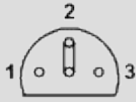
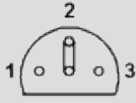





<a href="#">BCX31</a> NPN Silício	BC 639, 2N3700...3701, 2SD667	100V, 0,5A, 0,83W, >80MHz  Audio	 Visualização frontal	1 → E 2 → B 3 → C 4 →
<a href="#">BCX32</a> NPN Silício	BC 639, 2N3700...3701, 2SD667	80V, 1A, 0,83W, >80MHz  Audio	 Visualização frontal	1 → E 2 → B 3 → C 4 →
<a href="#">BCX33</a> NPN Silício	BC 637, BC 639, 2N3700...3701, 2SD667	=BCX 32, 60V  Audio	 Visualização frontal	1 → E 2 → B 3 → C 4 →
<a href="#">BCX34</a> NPN Silício	BC 635, BC 637, BC 639, 2SD667	=BCX 32, 40V  Audio	 Visualização frontal	1 → E 2 → B 3 → C 4 →
<a href="#">BCX35</a> PNP Silício	BC 640, 2SA1013, 2SA1315, 2SB647	80V, 0,6A, 0,83W, >80MHz  Audio	 Visualização frontal	1 → E 2 → B 3 → C 4 →
<a href="#">BCX36</a> PNP Silício	BC 638, BC 640, 2SA1315, 2SB647	=BCX 35, 60V  Audio	 Visualização frontal	1 → E 2 → B 3 → C 4 →
<a href="#">BCX37</a> PNP Silício	BC 636, BC 638, BC 640, 2SB647	=BCX 35, 40V  Audio	 Visualização frontal	1 → E 2 → B 3 → C 4 →
<a href="#">BCX38</a> Darlington NPN Silício	BC 877, BC 879, BSR 51...52	80V, 0,8A, 1W, B>500  Driver de audio		1 → C 2 → B 3 → E 4 →
<a href="#">BCX39</a> PNP Silício	BC 640, 2SB647, 2SA1013	100V, 0,8A, 0,45W, 100MHz  Pré, entrada e driver de audio		Sem Pinout

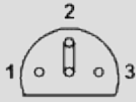
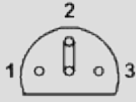




Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BCX40</a>  NPN Silício	BSS 15, 2N4239, 2N5320, 2SC2214	100V, 2A, 1W, >50MHz  Driver/saida de audio		Sem Pinout
<a href="#">BCX41</a>  NPN Silício	-	125V, 0,8A, 100MHz  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">BCX41R</a>  NPN Silício	-	=BCX 41  SMD		1 → B 2 → E 3 → C 4 →
<a href="#">BCX42</a>  PNP Silício	-	125V, 0,8A, 100MHz  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">BCX42R</a>  PNP Silício	-	=BCX 42  SMD		1 → B 2 → E 3 → C 4 →
<a href="#">BCX43</a>  MOS FET Canal N	-	150V, 1A  Uso diverso		1 → 2 → 3 → 4 →
<a href="#">BCX44</a>  MOS FET Canal N	-	90V, 0,5A  Uso diverso		1 → 2 → 3 → 4 →
<a href="#">BCX45</a>  NPN Silício	BC 635, BC 637, BC 639	45V, 1A, 0,625W, >100MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →

<a href="#">BCX46</a> PNP Silício	BC 636, BC 638, BC 640	45V, 1A, 0,625W, >60MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX47</a> NPN Silício	BC 637, BC 639, 2SD667	=BCX 45, 60V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BCX48</a> PNP Silício	BC 638, BC 640, 2SB647	=BCX 46, 60V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX49</a> NPN Silício	BC 639, 2SD667, 2N3700...3701	=BCX 45, 80V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX50</a> PNP Silício	BC 640, 2SB647, 2SA1013	=BCX 46, 80V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX51</a> PNP Silício	2SA1364, 2SB804	45V, 1A, 50MHz  SMD		1 → E 2 → C 3 → B 4 →
<a href="#">BCX52</a> PNP Silício	2SA1364, 2SB804	=BCX 51, 60V  SMD		1 → E 2 → C 3 → B 4 →
<a href="#">BCX53</a> PNP Silício	2SB804, 2SB1025	=BCX 51, 100V  SMD		1 → E 2 → C 3 → B 4 →

<a href="#">BCX54</a> NPN Silício	2SC3444, 2SD1005	45V, 1A, 130MHz  SMD		1 → E 2 → C 3 → B 4 →
<a href="#">BCX55</a> NPN Silício	2SC3444, 2SD1005	=BCX 54, 60V  SMD		1 → E 2 → C 3 → B 4 →
<a href="#">BCX56</a> NPN Silício	2SD1005, 2SD1418	=BCX 54, 100V  SMD		1 → E 2 → C 3 → B 4 →
<a href="#">BCX58</a> NPN Silício	BC 183, BC 237, BC 547, 2N2221...2222	32V, 0,1A, 0,45W, 250MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BCX59</a> NPN Silício	BC 182, BC 237, BC 547, 2N2221...2222	=BCX 58, 45V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX59</a> NPN Silício	BC 182, BC 237, BC 547, 2N2221...2222	=BCX 58, 45V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX60</a> PNP Silício	BSS 17, 2N5322	100V, 2A, 1W, >50MHz  Driver/saida de audio		Sem Pinout
<a href="#">BCX68</a> NPN Silício	BC 868, BCX 54...56, 2SC3439, 2SC3444	25V, 1A, 65MHz  SMD		1 → E 2 → C 3 → B 4 →

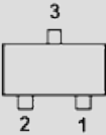
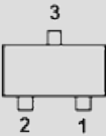
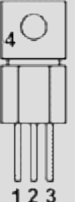
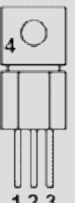
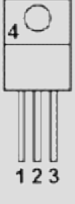
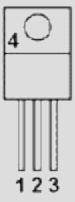
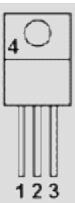
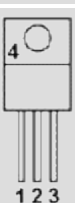
<a href="#">BCX69</a> PNP Silício	BC 869, BCX 51...53, 2SA1364, 2SA1369	25V, 1A, 65MHz  SMD		1 → E 2 → C 3 → B 4 →
<a href="#">BCX70</a> NPN Silício	BC 846...847, BCW 71...72, BCW 81	=BCW 60, 45V  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">BCX70R</a> NPN Silício	BC 846R...847R, BCW 71R...72R, BCW 81R	=BCX 70  SMD		1 → B 2 → E 3 → C 4 →
<a href="#">BCX71</a> PNP Silício	BC 856...857, BCW 69...70, BCW 89	=BCW 61, 45V  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">BCX71R</a> PNP Silício	BC 856R...857R, BCW 69R...70R, BCW 89R	=BCX 71  SMD		1 → B 2 → E 3 → C 4 →
<a href="#">BCX73</a> NPN Silício	BC 637, BC 639, 2N2221...2222	60V, 0,8A, 0,625W, >100MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BCX74</a> NPN Silício	BC 639, 2N2221A...2222A	=BCX 73, 75V  Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX75</a> PNP Silício	BC 638, BC 640, 2N2906...2907	60V, 0,8A, 0,625W, > 100MHz  Audio / chaveamento		1 → E 2 → B 3 → C 4 →

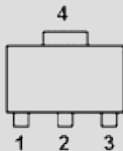

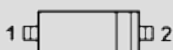
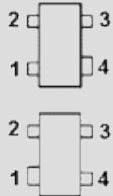
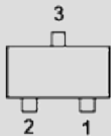
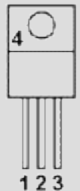
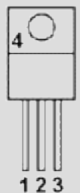
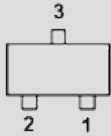
<a href="#">BCX76</a> PNP Silício	BC 640, 2N2906A...2907A	=BCX 75, 75V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX78</a> PNP Silício	BC 213, BC 307, BC 557, 2N2906...2907	32V, 0,1A, 0,45W, 200MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX79</a> PNP Silício	BC 213, BC 307, BC 557, 2N2906...2907	=BCX 78, 45V Audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">BCX80</a> NPN Silício	BC 337, BC 637, BC 639	50V, 0,75A, 0,5W, >120MHz Driver de audio		1 → E 2 → B 3 → C 4 →
<a href="#">BCX81</a> PNP Silício	BC 327, BC 638, BC 640	50V, 0,75A, 0,5W, >120MHz Driver de audio		1 → E 2 → B 3 → C 4 →
<a href="#">BCX82</a> NPN Silício	2SC2240, 2SC2459	100V, 0,1A, >75MHz, B>250 Uso geral / baixo ruido		1 → E 2 → B 3 → C 4 →
<a href="#">BCX83</a> NPN Silício	2SC2240, 2SC2459	=BCX 82, B>600 Uso geral / baixo ruido		1 → E 2 → B 3 → C 4 →
<a href="#">BCX84</a> PNP Silício	BC 638, BC 640, 2SB647	60V, 0,5A, 0,5W, >60MHz Driver de audio		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout


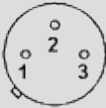


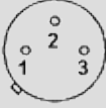
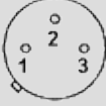


<a href="#">BCX85</a>  NPN Silício	BC 637, BC 639, 2SD667	60V, 0,5A, 0,5W, >80MHz  Driver de audio		1 → E 2 → B 3 → C 4 →
<a href="#">BCX86</a>  Darlington NPN Silício	BC 517, BC 875, BC 877, BC 879	25V, 0,5A, 0,5W, >80MHz, B>2000  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">BCX87</a>  Darlington PNP Silício	BC 516, BC 876, BC 878, BC 880	25V, 0,5A, 0,5W, >80MHz, B>2000  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">BCX88</a>  Darlington NPN Silício	BC 517, BC 875, BC 877, BC 879	=BCX 86, B>87000  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">BCX89</a>  Darlington PNP Silício	BC 516, BC 876, BC 878, BC 880	=BCX 87, B>40000  Audio		1 → E 2 → B 3 → C 4 →
<a href="#">BCX94</a>  NPN Silício	BC 639, 2N3700...3701, 2SD667	100V, 0,8A, 0,45W, 100MHz  Pré, entrada e driver de audio		Sem Pinout

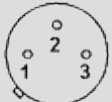

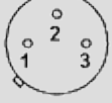

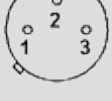
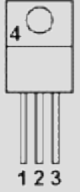
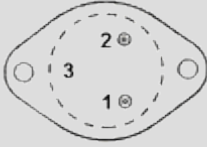
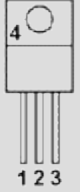
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">1BG</a>  NPN Silício	=2SC3340	=2SC3340-GR  SMD		Sem Pinout

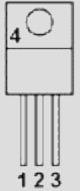
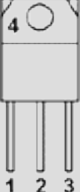
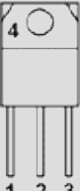
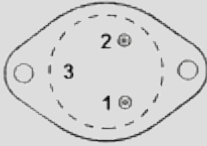
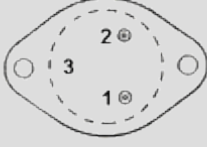
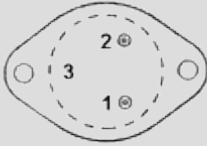
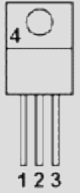
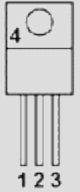











<a href="#">3BG</a> PNP Silicio	=2SA1325	=2SA1325-GR SMD		Sem Pinout
<a href="#">ABG</a> PNP Silicio	=2SA1312	=2SA1312-GR SMD		Sem Pinout
<a href="#">AC03BGM..FGM</a> <a href="#">L,R</a> Triac	TAG 137-...	200..600V, 3A=(Tc=77°), lgt/lh<15/=5mA L, >10V/μs Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">AC04BGM..FGM</a> <a href="#">L,R</a> Triac	TAG 137-...	200..600V, 4A=(Tc=80°), lgt/lh<15/=5mA L, >10V/μs Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">AC08BGM..FGM</a> <a href="#">L,R</a> Triac	BT 158/..., MAC 222-..., TIC 225...	200..600V, 8A=(Tc=86°),lgt/lh<75/=30mA L, >10V/μs Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">AC10BGM..FGM</a> <a href="#">L,R</a> Triac	BT 162/..., SC 146..., TIC 236...	200..600V,10A=(Tc=86°),lgt/lh<75/= 30mA L, >10V/μs Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">AC12BGM..FGM</a> <a href="#">L,R</a> Triac	BT 162/..., SC 149..., TIC 236...	200..600V,12A=(Tc=75°),lgt/lh<50/= 30mA L, >10V/μs Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2
<a href="#">AC16BGM..FGM</a> <a href="#">L,R</a> Triac	MAC 15-..., SC 151..., TIC 246...	200..600V,16A=(Tc=80°),lgt/lh<50/= 40mA L, >10V/μs Usò diverso		1 → A1 2 → A2 3 → Gate 4 → A2

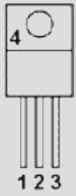
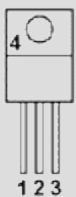
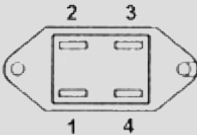
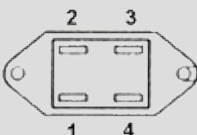
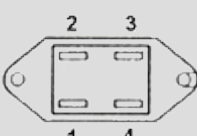
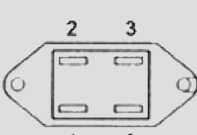
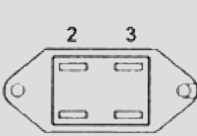
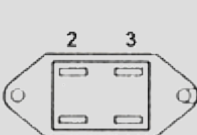
<a href="#">BG</a> NPN Silicio	=BCP 55-10	=BCP 55-10 SMD		Sem Pinout
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BGU</a> Diodo Zener	=SM 15T...	=SM 15T 200C Estabilizador de tensão (8X5mm)		1 → A 2 → K 3 → 4 →
<a href="#">BGV</a> Diodo Zener	=SM 15T...	=SM 15T200CA Estabilizador de tensão (8X5mm)		1 → A 2 → K 3 → 4 →
<a href="#">BGX50(A)</a> Ponte Rectificadora Silicio	-	50V, 0,1A, ..50MHz SMD		1 → 2 → 3 → 4 →
<a href="#">CBG</a> NPN Silicio	=2SC3324	=2SC3324-GR SMD		Sem Pinout
<a href="#">IRFBG20</a> MOS FET Canal N	BUK 456-1000, BUZ 51	1000V, 1,4A, 54W, <11Ohm(0,84A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">IRFBG30</a> MOS FET Canal N	BUK 456-1000, BUZ 51	1000V, 3,1A, 125W, <5Ohm(1,9A) Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">RBG</a> FET Canal N	=2SK711	=2SK711-GR SMD		1 → 2 → 3 → 4 →

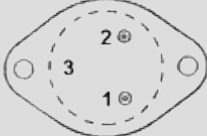
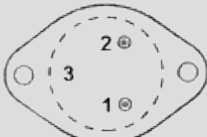
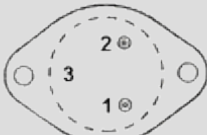

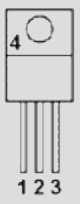
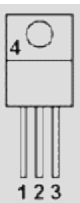
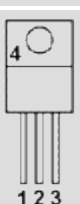

<a href="#">X0301BG</a>	-	200V, 1,6A(Tc=85°C), Igt/Ih <0,02/5mA		1 → K 2 → G 3 → A 4 →
Tiristor		Uso diverso		
<a href="#">X0303BG..0303MG</a>	TAG 615-...	=X 0301BG..0301MG, Igt/Ih <0,2/5mA		1 → K 2 → G 3 → A 4 →
Tiristor		Uso diverso		
<a href="#">X0304BG..0304MG</a>	TAG 615-...	=X 0301BG..0301MG, Igt/Ih <0,5/5mA		1 → K 2 → G 3 → A 4 →
Tiristor		Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">X0709BG</a>	TAG 607-...	200V, 4,5A(Tc=85°C), Igt/Ih <10/15mA		1 → K 2 → G 3 → A 4 →
Tiristor		Uso diverso		
<a href="#">Z0302BG</a>	TAG 207-...	200V, 3A(Tc=85°C), Igt/Ih<3/3mA		1 → A1 2 → Gate 3 → A2 4 →
Triac		Uso diverso		
<a href="#">Z0305BG..0305MG</a>	TAG 204A-..., TAG 205-...	=Z 0302BG..0302MG, Igt/Ih <5/5mA		1 → A1 2 → Gate 3 → A2 4 →
Triac		Uso diverso		
<a href="#">Z0309BG..0309MG</a>	TAG 203A-..., TAG 203-..., TAG 209-...	=Z 0302BG..0302MG, Igt/Ih <10/10mA		1 → A1 2 → Gate 3 → A2 4 →
Triac		Uso diverso		
<a href="#">Z0310BG..0310MG</a>	TAG 208-...	=Z 0302BG..0302MG, Igt/Ih <25/25mA		1 → A1 2 → Gate 3 → A2 4 →
Triac		Uso diverso		

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">X0709BG</a>  Tiristor	TAG 607-...	200V, 4,5A(Tc=85°C), Igt/Ih <10/15mA  Uso diverso		1 → K 2 → G 3 → A 4 →
<a href="#">Z0302BG</a>  Triac	TAG 207-...	200V, 3A(Tc=85°C), Igt/Ih<3/3mA  Uso diverso		1 → A1 2 → Gate 3 → A2 4 →
<a href="#">Z0305BG..0305MG</a>  Triac	TAG 204A-..., TAG 205-...	=Z 0302BG..0302MG, Igt/Ih <5/5mA  Uso diverso		1 → A1 2 → Gate 3 → A2 4 →
<a href="#">Z0309BG..0309MG</a>  Triac	TAG 203A-..., TAG 203-..., TAG 209-...	=Z 0302BG..0302MG, Igt/Ih <10/10mA  Uso diverso		1 → A1 2 → Gate 3 → A2 4 →
<a href="#">Z0310BG..0310MG</a>  Triac	TAG 208-...	=Z 0302BG..0302MG, Igt/Ih <25/25mA  Uso diverso		1 → A1 2 → Gate 3 → A2 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BUT12FI,AFI</a>  NPN Silício	-	=BUT 12(A)  Uso diverso		1 → B 2 → C 3 → E 4 →
<a href="#">BUT13</a>  Darlington NPN Silício + Diodo	MJ 10023	600/400V, 28A, 175W  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">BUT131(H)</a>  NPN Silício	BUT 11(A), BUT 18(A), BU 46(A)	850/450V, 5A, 80W  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C

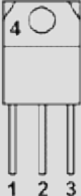
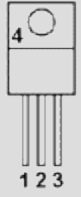
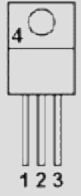
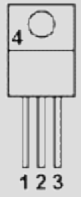
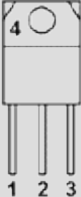
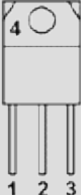
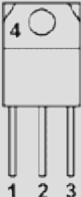
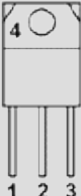
<a href="#">BUT131A</a>	BUT 11A, BUT 18A, BUV 46A, 2SC3050	=BUT 131(H), 1000/450V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT13P</a>	-	=BUT 13, 150W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT13PFI</a>	-	=BUT 13P, , 60W Chaveamento / potência		1 → B 2 → C 3 → E 4 →
<a href="#">BUT14</a>	BUT 35...36	850/500V, 25A, 175W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">BUT15</a>	MJ 10024...10025	1000/700V, 20A, 175W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">BUT16</a>	-	1400/1000V, 12A, 150W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">BUT18</a>	BUT 12(A), BUT 56(A)	850/400V, 6A, 110W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BUT18(A)F</a>	BUT 12(A)F	=BUT 18(A), , 33W Uso diverso		1 → B 2 → C 3 → E 4 →

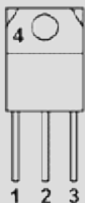
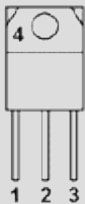
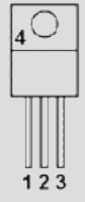
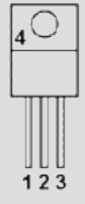
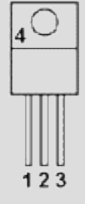
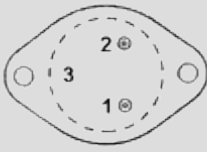
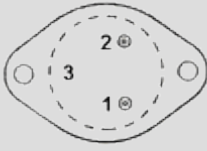
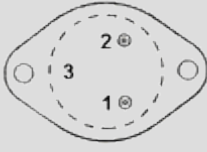
<a href="#">BUT18A</a> NPN Silicio	BUT 12A, BUT 56A	=BUT 18, 1000/450V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT211</a> NPN Silicio	BUS 46P, BUV 46(A), 2SC3047	850/400, 5A, 100W, <-2,8μs Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT211X</a> NPN Silicio	BUT 11(A)F, BUT 21CF, 2SC3795A	=BUT 211 Chaveamento / potência		1 → B 2 → C 3 → E 4 →
<a href="#">BUT21B</a> NPN Silicio	BUT 12(A), BUT 56(A)	750/400V, 5A, 100W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT21BF</a> NPN Silicio	BUT 11(A)F, BUT 12(A)F, BUT 18(A)F	=BUT 21B, , 20W Chaveamento / potência		1 → B 2 → C 3 → E 4 →
<a href="#">BUT21C</a> NPN Silicio	BUT 12(A), BUT 56(A)	=BUT 21B, 850/450V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT21CF</a> NPN Silicio	BUT 11(A)F, BUT 12(A)F, BUT 18(A)F	=BUT 21C, , 20W Chaveamento / potência		1 → B 2 → C 3 → E 4 →
<a href="#">BUT22B</a> NPN Silicio	BUT 12(A), BUT 76(A), BUV 56(A)	750/400V, 8A, 125W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT22BF</a> NPN Silicio	BUT 12(A)F	=BUT 22B, , 23W Chaveamento / potência		1 → B 2 → C 3 → E 4 →

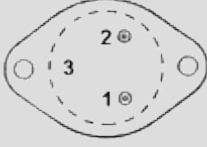
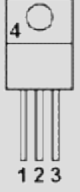
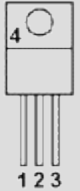
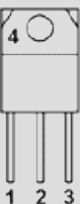

Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BUT22C</a>  NPN Silicio	BUT 12(A), BUT 76(A), BUV 56(A)	=BUT 22B, 850/450V  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT22CF</a>  NPN Silicio	BUT 12(A)F	=BUT 22C, , 23W  Chaveamento / potência		1 → B 2 → C 3 → E 4 →
<a href="#">BUT230(F,V)</a>  NPN Silicio	-	200/125V, 200A, 300W  Chaveamento / potência		1 → E 2 → E 3 → C 4 → B
<a href="#">BUT232(F,V)</a>  NPN Silicio	-	400/300V, 140A, 300W  Chaveamento / potência		1 → E 2 → E 3 → C 4 → B
<a href="#">BUT30(F,V)</a>  NPN Silicio	-	200/125V, 100A, 250W  Chaveamento / potência		1 → E 2 → 3 → C 4 → B
<a href="#">BUT30(F,V)</a>  NPN Silicio	-	200/125V, 100A, 250W  Chaveamento / potência		1 → E 2 → 3 → C 4 → B
<a href="#">BUT32(V)</a>  NPN Silicio	-	400/300V, 80A, 250W  Chaveamento / potência		1 → E 2 → 3 → C 4 → B
<a href="#">BUT32(V)</a>  NPN Silicio	-	400/300V, 80A, 250W  Chaveamento / potência		1 → E 2 → 3 → C 4 → B

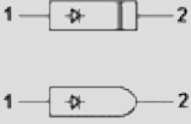
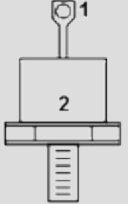
<a href="#">BUT33</a>	MJ10015...1001	600/400V, 56A, 250W		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício + Diodo	6	Chaveamento / potência		
<a href="#">BUT34</a>	-	850/500V, 50A, 250W		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BUT35</a>	-	1000/700V, 40A, 250W		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
<a href="#">BUT36</a>	-	1400/1000V, 24A, 250W		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
<a href="#">BUT44D</a>	-	700/400V, 4A, 63W, 160/-ns		1 → B 2 → C 3 → E 4 → C
Transistor NPN Silício + Diodo	-	Chaveamento / potência		
<a href="#">BUT46</a>	BUT 11(A), BUT 18(A), BUV 46(A)	850/400V, 5A, 75W		1 → B 2 → C 3 → E 4 → C
NPN Silício		Fonte chaveada / potência		
<a href="#">BUT46A</a>	BUT 11A, BUT 18A, BUV 46A, 2SC3050	=BUT 46, 1000/450V		1 → B 2 → C 3 → E 4 → C
NPN Silício		Fonte chaveada / potência		
<a href="#">BUT50P</a>	2SC3030, 2SC3032	850/500V, 8A, 100W		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo		Chaveamento / potência		

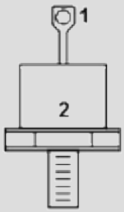
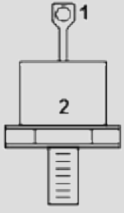
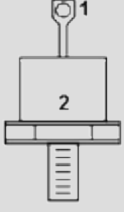
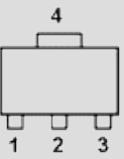
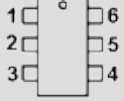
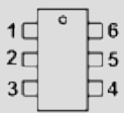
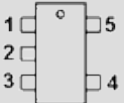
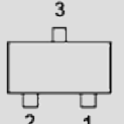


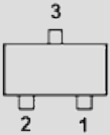
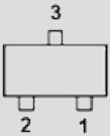
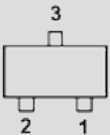
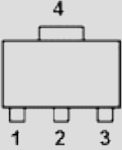
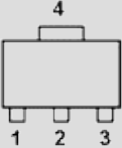
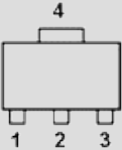
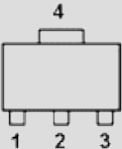
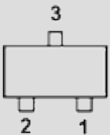
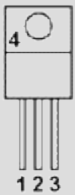
<a href="#">BUT51P</a>	BUD 48	850/500V, 15A, 125W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT54</a>	BUT 56(A), BUV 56	800/430V, 8A, 100W, 10MHz Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT55</a>	-	400/400V, 12A, 105W, B>100 Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT56</a>	BUT 12(A), BUT 54, BUV 56(A)	800/400V, 8A, 100W, 10MHz Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BUT70</a>	-	200/125V, 40A, 200W Fonte chaveada / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT70I</a>	-	=BUT 70, , 115W Uso diverso		1 → B 2 → C 3 → E 4 →
<a href="#">BUT71</a>	-	300/200V, 40A, 175W Fonte chaveada / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT71I</a>	-	=BUT 71, , 100W Fonte chaveada / potência		1 → B 2 → C 3 → E 4 →

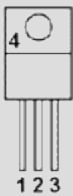




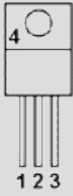
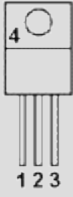

<a href="#">BUT72</a>	-	400/300V, 40A, 200W		1 → B 2 → C 3 → E 4 → C
NPN Silício		Fonte chaveada / potência		
<a href="#">BUT72I</a>	-	=BUT 72, , 115W		1 → B 2 → C 3 → E 4 →
NPN Silício		Fonte chaveada / potência		
<a href="#">BUT76</a>	BUV 56(A), BUV 66(A)	850/400V, 10A, 100W		1 → B 2 → C 3 → E 4 → C
NPN Silício		Fonte chaveada / potência		
<a href="#">BUT76A</a>	BUV 56A, BUV 66A	=BUT 76, 1000/450V		1 → B 2 → C 3 → E 4 → C
NPN Silício		Fonte chaveada / potência		
<a href="#">BUT76AF</a>	BUT 12AF	=BUT 76		1 → B 2 → C 3 → E 4 →
NPN Silício		Fonte chaveada / potência		
<a href="#">BUT90</a>	BUT 100, BUR 20	200/125V, 50A, 250W		1 → E 2 → B 3 → C 4 →
NPN Silício		Chaveamento / potência / baixa saturação		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">BUT91</a>	BUT 102, BUR 51...52	=BUT 90, 300/200V		1 → E 2 → B 3 → C 4 →
NPN Silício		Chaveamento / potência / baixa saturação		
<a href="#">BUT92</a>	BUT 102, BUR 52	=BUT 90, 350/250V		1 → E 2 → B 3 → C 4 →
NPN Silício		Chaveamento / potência / baixa saturação		

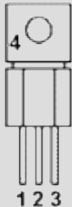
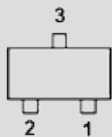



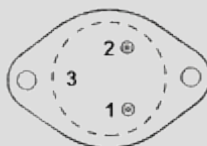
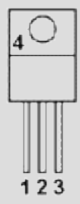
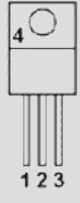
<a href="#">BUT92A</a> NPN Silício	BUT 102	=BUT 90, 400/300V Chaveamento / potência / baixa saturação		1 → E 2 → B 3 → C 4 →
<a href="#">BUT93</a> NPN Silício	BUT 11(A), BUV 46(A), 2SC3086, 2SD841	600/350V, 4A, 55W, 9MHz Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT93D</a> Transistor NPN Silício + Diodo	-	Diodo Damper interno		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT98</a> NPN Silício	-	850/450V, 30A, 200W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">BUT98A</a> NPN Silício	-	=BUT 98, 1000/450V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C

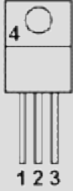
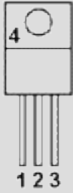
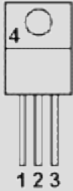
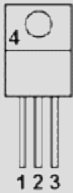
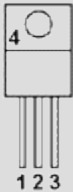
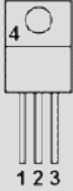
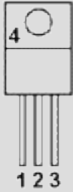
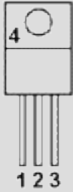
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">1,5KE6.8..440C,C</a> <a href="#">A</a> Diodo Zener	1N6036...72, 1N6138...73	Estabilizador de tensão		1 → A 2 → K 3 → 4 →
<a href="#">1N1351CA..1375C</a> <a href="#">A</a> Diodo Zener	-	=1N1351..1375, bidirecional, 5% Estabilizador de tensão		1 → K 2 → A 3 → 4 →

<a href="#">1N1803CA..1815C</a> <a href="#">A</a>		=1N1803..1815, bidirecional, 5%		1 → K 2 → A 3 → 4 →
Diodo Zener		Estabilizador de tensão		
<a href="#">1N1816CA..1836C</a> <a href="#">A</a>		=1N1816..1836, bidirecional, 5%		1 → K 2 → A 3 → 4 →
Diodo Zener		Estabilizador de tensão		
<a href="#">1N2008CA..2012C</a> <a href="#">A</a>		=1N2008..2012, bidirecional, 5%		1 → K 2 → A 3 → 4 →
Diodo Zener		Estabilizador de tensão		
<a href="#">CA</a>	=BCP 68	=BCP 68		Sem Pinout
NPN Silício		SMD		
<a href="#">CA</a>	=XN 4314	=XN 4314		Sem Pinout
Transistor Silício NPN/PNP + Resistor		SMD		
<a href="#">CA</a>	=XP 4314	=XP 4314		Sem Pinout
Transistor Silício NPN/PNP + Resistor		SMD (2mm)		
<a href="#">CA</a>	=æPA503T	=µPA503T		1 → 2 → 3 → 4 →
MOS FET Canal P		SMD		
<a href="#">CA</a>	=BFS 18	=BFS 18		Sem Pinout
NPN Silício		SMD		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

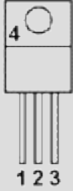
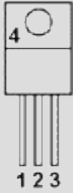
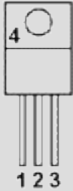
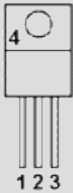
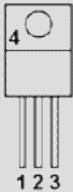
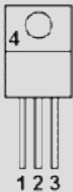
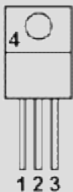
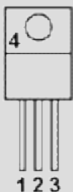
<a href="#">CA</a> PNP Silício	=BCW 61RA	=BCW 61RA SMD		Sem Pinout
<a href="#">CA</a> FET Canal N	=SST 4391	=SST 4391 SMD		1 → 2 → 3 → 4 →
<a href="#">CA</a> Diodo Varicap	=BB 510	=BB 510 SMD		1 → 2 → 3 → 4 →
<a href="#">CA</a> NPN Silício	=BCX 68	=BCX 68 SMD		Sem Pinout
<a href="#">CA</a> NPN Silício	=2SC3645	=2SC3645 SMD		Sem Pinout
<a href="#">CA</a> NPN Silício	=2SD1368	=2SD1368-CA SMD		Sem Pinout
<a href="#">CAC</a> NPN Silício	=BC 868	=BC 868 SMD		Sem Pinout
<a href="#">CCA</a> NPN Silício	=2SC3326A	=2SC3326A SMD		Sem Pinout
<a href="#">F1B1CA</a> Diodo Silício	-	100V, 10A, 400ns  Retificador / chaveamento / potência / duplo		1 → K1 2 → A 3 → K2 4 →

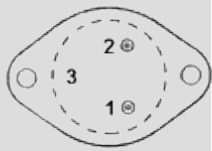
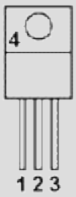
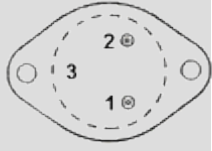
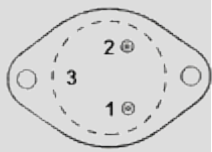
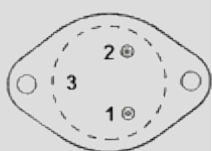
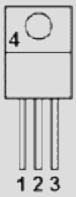
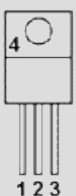
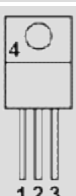
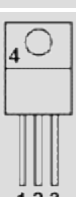
<a href="#">F1B2CA</a>	-	=F 1B1CA, 200V  Retificador / chaveamento / potência / duplo		1 → K1 2 → A 3 → K2 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">F2B1CA</a>	-	100V, 20A, 400ns  Retificador / chaveamento / potência / duplo		1 → K1 2 → A 3 → K2 4 →
<a href="#">F2B1CA</a>	-	100V, 20A, 400ns  Retificador / chaveamento / potência / duplo		1 → K1 2 → A 3 → K2 4 →
<a href="#">F2B2CA</a>	-	=F 2B1CA, 200V  Uso diverso		1 → K1 2 → A 3 → K2 4 →
<a href="#">F2B2CA</a>	-	=F 2B1CA, 200V  Uso diverso		1 → K1 2 → A 3 → K2 4 →
<a href="#">F5A1CA</a>	-	100V, 5A, 200ns  Retificador / chaveamento / potência / duplo		1 → K1 2 → A 3 → K2 4 →
<a href="#">F5A2CA</a>	-	=F 5A1CA, 200V  Retificador / chaveamento / potência / duplo		1 → K1 2 → A 3 → K2 4 →
<a href="#">M21C,CA</a>	BRX 45...49, BRX 50...56, BRY 55/...	200(CA=400)V, 0,3A, Igt/Ih<1/3mA  Uso diverso		1 → 2 → 3 → 4 →

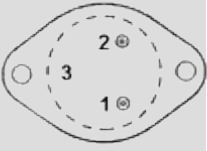
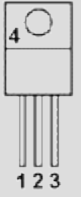
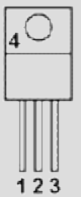
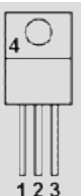
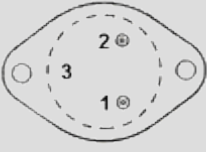
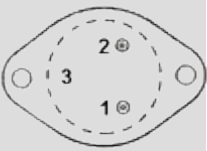
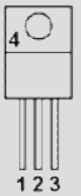
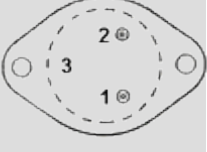
<a href="#">M23C,CA</a> Tiristor	C 106..., C 107..., TAG 106..., TAG 107...	200(CA=400)V, 2A, Igt/Ih<1/2mA  Uso diverso		1 → 2 → 3 → 4 →
<a href="#">MMBD4148CA</a> Diodo Silício	MMBD 2836	=MMBD 4148  SMD		1 → K1 2 → K2 3 → A 4 →
<a href="#">P0102CA</a> Tiristor	MCR 100-..., BRY 55/..., TAG 70...	=P 0102AA, 300V  Uso diverso		1 → A 2 → G 3 → K 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">R0103CA</a> Triac	MAC 92(A)-..., MAC 95-..., Z0104...	=R 0103AA, 300V  Uso diverso		1 → A 2 → G 3 → K 4 →
<a href="#">R0106CA</a> Triac	MAC 91A-..., MAC 94(A)-...	=R 0106AA, 300V  Uso diverso		1 → A 2 → G 3 → K 4 →
<a href="#">RCA1000..1001</a> Darlington NPN Silício + Diodo	=MJ 1000...1001	=MJ 1000..1001  Uso diverso		1 → E 2 → B 3 → C 4 →
<a href="#">RCA29</a> NPN Silício	BD 241, BD 243, BD 533, BD 933	40V, 3A, 30W, >3MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA29A</a> NPN Silício	BD 241A, BD 243A, BD 535, BD 935	=RCA 29, 60V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

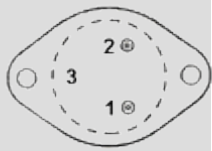
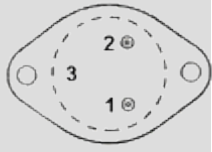
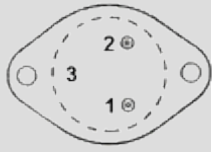
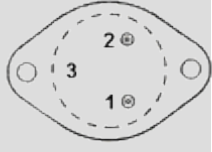
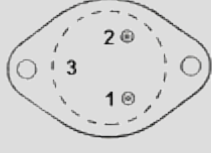
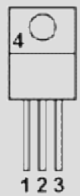
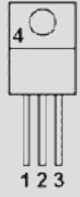
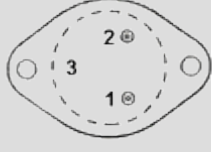
<a href="#">RCA29B</a>	BD 241B, BD 243B, BD 537, BD 937	=RCA 29, 80V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA29C</a>	BD 241C, BD 243C, BD 937, 2SD712	=RCA 29, 100V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA30</a>	BD 242, BD 244, BD 534, BD 934	40V, 3A, 30W, >3MHz Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA3054</a>	BD 243B, BD 539C, BD 953, 2SD613	90V, 4A, 36W, >0,8MHz Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA3055</a>	BD 545C, BD 743C, BD 911	100V, 15A, 75W, >0,8MHz Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">RCA30A</a>	BD 242A, BD 244A, BD 536, BD 936	=RCA 30, 60V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA30B</a>	BD 242B, BD 244B, BD 538, BD 938	=RCA 30, 80V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA30C</a>	BD 242C, BD 244C, BD 938, 2SB682	=RCA 30, 100V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

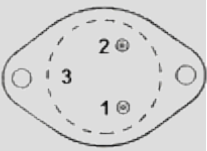
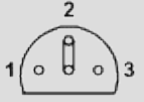


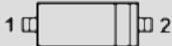
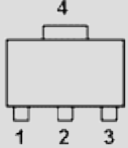


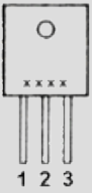
<a href="#">RCA31</a>	BD 243, BD 539, BD 543, BD 947	40V, 5A, 40W, >3MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA31A</a>	BD 243A, BD 539A, BD 543A, BD 949	=RCA 31, 60V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA31B</a>	BD 243B, BD 539B, BD 543B, BD 951	=RCA 31, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA31C</a>	BD 243C, BD 539C, BD 543C, BD 953	=RCA 31, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA32</a>	BD 244, BD 540, BD 544, BD 948	40V, 5A, 40W, >3MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA32A</a>	BD 244A, BD 540A, BD 544A, BD 950	=RCA 32, 60V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA32B</a>	BD 244B, BD 540B, BD 544B, BD 952	=RCA 32, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">RCA32C</a>	BD 244C, BD 540C, BD 544C, BD 954	=RCA 32, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

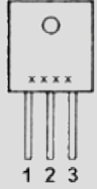




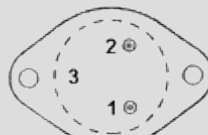


<a href="#">RCA3773</a>	=2N3773	=2N3773		1 → E 2 → B 3 → C 4 →
NPN Silício		Audio / chaveamento / estágios de potência		
<a href="#">RCA41</a>	BD 543, BD 705, BD 795, BD 805	40V, 7A, 65W, >3MHz		1 → B 2 → C 3 → E 4 → C
NPN Silício		Audio / chaveamento / estágios de potência		
<a href="#">RCA410</a>	BUX 18(A,B), TIP 55(A), 2SC3835	200/200V, 7A, 125W, 4MHz		1 → E 2 → B 3 → C 4 →
NPN Silício		Chaveamento / potência		
<a href="#">RCA411</a>	BUX 18A,B, TIP 55A...56A, 2SC3813	=RCA 410, 300/300V		1 → E 2 → B 3 → C 4 →
NPN Silício		Chaveamento / potência		
<a href="#">RCA413</a>	BUX 18B, BUX 44, TIP 56A...57A, 2SC3040	400/325V, 7A, 125W, 4MHz, B=20-80		1 → E 2 → B 3 → C 4 →
NPN Silício		Chaveamento / potência		
<a href="#">RCA41A</a>	BD 543A, BD 707, BD 797, BD 807	=RCA 41, 60V		1 → B 2 → C 3 → E 4 → C
NPN Silício		Audio / chaveamento / estágios de potência		
<a href="#">RCA41B</a>	BD 543B, BD 709, BD 799, BD 809	=RCA 41, 80V		1 → B 2 → C 3 → E 4 → C
NPN Silício		Audio / chaveamento / estágios de potência		
<a href="#">RCA41C</a>	BD 543C, BD 711, BD 801	=RCA 41, 100V		1 → B 2 → C 3 → E 4 → C
NPN Silício		Audio / chaveamento / estágios de potência		
<a href="#">RCA42</a>	BD 544, BD 706, BD 796, BD 806	40V, 7A, 65W, >3MHz		1 → B 2 → C 3 → E 4 → C
PNP Silício		Audio / chaveamento / estágios de potência		




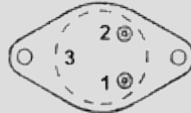




Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">RCA423</a>  NPN Silício	BUX 18B, BUX 44, TIP 56A...57A, 2SC3040	=RCA 413, B=30..90  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">RCA42A</a>  PNP Silício	BD 544A, BD 708, BD 798, BD 808	=RCA 42, 60V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA42B</a>  PNP Silício	BD 544B, BD 710, BD 800, BD 810	=RCA 42, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA42C</a>  PNP Silício	BD 544C, BD 712, BD 802	=RCA 42, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA431</a>  NPN Silício	BUX 18B, BUX 44, TIP 56A...57A, 2SC3040	400/325V, 7A, 125W  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">RCA6340..6341</a>  NPN Silício	=2N6340...6341	=2N6340..6341  Uso diverso		1 → E 2 → B 3 → C 4 →
<a href="#">RCA8203(A..B)</a>  Darlington PNP Silício	BDW 47(A...D), BDX 54(A...F), BD 900	40..80V, 8A, 60W, B=1k..20k  Estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA8350(A..B)</a>  Darlington PNP Silício	BDW 84(A...D), BDX 84(A...C), BDX 86(A...C)	40..80V, 10A, 70W, B=1k..20k  Estágios de potência		1 → E 2 → B 3 → C 4 →

<a href="#">RCA8638(C..E)</a>	BDW 30, BDY 58, 2N5671...72	140..100V, 20A, 200, >2MHz Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">RCA8766(A..E)</a>	BU 922(P), BUW 81(A), MJ 10002...03	350..450V, 10A, 150W, B>100 Chaveamento / potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">RCA9113(A..B)</a>	BUW 44, BUX 13, BUS 23(A...B), 2SC4140	300..400V, 15A, 175W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">RCA9116(C..E)</a>	-	140..100V, 20A, 200W, >2MHz Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">RCA9166A..B</a>	-	275..225V, 16A, 250W, >4MHz Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">RCA9202(B..C)</a>	2SD977...978, 2SD987, 2SD1072	300..400V, 4A, 65W, B>750 Estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA9203A..B</a>	2SD816, 2SD977, 2SD1073	250..300V, 4A, 50W, B>500 Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">RCA9228A..D</a>	-	60..120V, 50A, 300W, B>2000 Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →



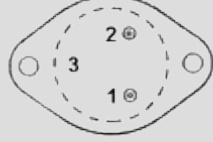
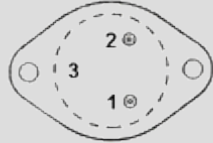
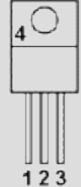
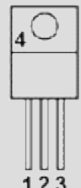
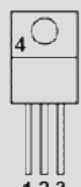
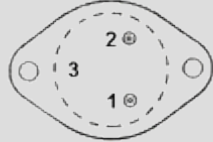
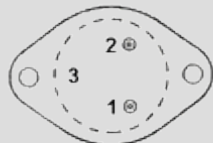
<a href="#">RCA9229A..D</a>	-	60..120V, 50A, 300W, B>2000		1 → E 2 → B 3 → C 4 →
Darlington PNP Silício + Diodo		Audio / chaveamento / estágios de potência		
<a href="#">X0100CA</a>	-	=X 0100AA, 300V		1 → A 2 → G 3 → K 4 →
Tiristor		Uso diverso		

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">GD</a>	=Z2 SMB-7V5	=Z2 SMB-7V5		1 → 2 → 3 → 4 →
Diodo Zener		Estabilizador de tensão (5mm)		
<a href="#">GD</a>	=BAW 78D	=BAW 78D		1 → 2 → 3 → 4 →
Diodo Silício		SMD		
<a href="#">GD100</a>	AD 162	20V, 1,3A, 2W(Tc=45°)		1 → E 2 → B 3 → C 4 →
PNP Germânio		Audio / potência		
<a href="#">GD110</a>	AD 162	20V, 1,3A, 2W(Tc=45°)		1 → E 2 → B 3 → C 4 →
PNP Germânio		Audio / potência		
<a href="#">GD114[Grundig]</a>	=BD 246B	=BD 246B		1 → E 2 → C 3 → B 4 → C
PNP Silício		Audio / potência		

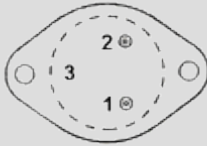
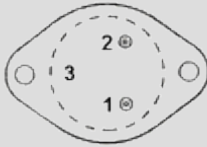


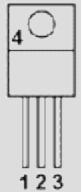

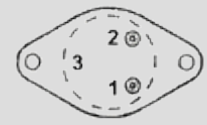
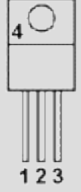
<a href="#">GD115[Grundig]</a> NPN Silício	=BD 245B	=BD 245B Audio / potência		1 → E 2 → C 3 → B 4 → C
<a href="#">GD120</a> PNP Germânico	AD 162	33V, 1,3A, 2W(Tc=45°) Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD125</a> PNP Germânico	-	66V, 1,3A, 2W(Tc=45°) Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD130</a> PNP Germânico	-	66V, 1,3A, 2W(Tc=45°) Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD133[Grundig]</a> PNP Silício	=BD 140	=BD 140 Uso diverso		1 → E 2 → C 3 → B 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">GD142[Grundig]</a> NPN Silício	=2N3055	=2N3055 Uso diverso		1 → E 2 → B 3 → C 4 →
<a href="#">GD142[Grundig]</a> NPN Silício	=2N3055	=2N3055 Uso diverso		1 → E 2 → B 3 → C 4 →
<a href="#">GD150</a> PNP Germânico	AD 162, 2SB474	20V, 3A, 5,3W Audio / potência		1 → E 2 → B 3 → C 4 →



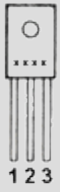

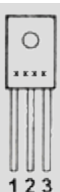
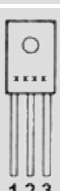
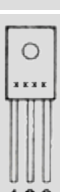
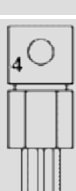
<a href="#">GD151[Grundig]</a>	=BD 433	=BD 433		1 → E 2 → C 3 → B 4 → C
NPN Silício	=BD 433	Audio / potência		
<a href="#">GD152[Grundig]</a>	=BD 434	=BD 434		1 → E 2 → C 3 → B 4 → C
PNP Silício	=BD 434	Audio / potência		
<a href="#">GD160(A...C)</a>	AD 162, 2SB474	20V, 3A, 5,3W		1 → E 2 → B 3 → C 4 →
PNP Germânico	AD 162, 2SB474	Audio / potência		
<a href="#">GD170(A...C)</a>	AD 162, 2SB474	=GD 160, 33V		1 → E 2 → B 3 → C 4 →
PNP Germânico	AD 162, 2SB474	Audio / potência		
<a href="#">GD175(A...C)</a>	-	=GD 160, 50V		1 → E 2 → B 3 → C 4 →
PNP Germânico	-	Audio / potência		
<a href="#">GD180(A...C)</a>	-	=GD 160, 66V		1 → E 2 → B 3 → C 4 →
PNP Germânico	-	Audio / potência		
<a href="#">GD183[Grundig]</a>	=BD 136	=BD 136		1 → E 2 → C 3 → B 4 → C
PNP Silício	=BD 136	Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">GD190</a>	AD 162	30V, 1,5A		1 → E 2 → B 3 → C 4 →
PNP Germânico	AD 162	Audio / potência		







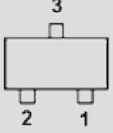
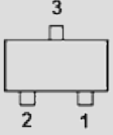





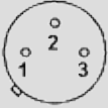
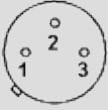
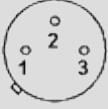
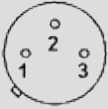
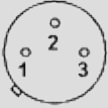
<a href="#">GD191</a>	AD 162	40V, 1,5A		1 → E 2 → B 3 → C 4 →
<a href="#">GD192</a>	-	50V, 1,5A		1 → E 2 → B 3 → C 4 →
<a href="#">GD200</a>	AL 102...103, AUY 22(A), AUY 28	30V, 6A, 12W(Tc=50°)		1 → E 2 → B 3 → C 4 →
<a href="#">GD200</a>	AL 102...103, AUY 22(A), AUY 28	30V, 6A, 12W(Tc=50°)		1 → E 2 → B 3 → C 4 →
<a href="#">GD203[Grundig]</a>	=BD 243B	=BD 243B		1 → B 2 → C 3 → E 4 → C
<a href="#">GD204[Grundig]</a>	=BD 244B	=BD 244B		1 → B 2 → C 3 → E 4 → C
<a href="#">GD207[Grundig]</a>	=BD 243B	=BD 243B		1 → B 2 → C 3 → E 4 → C
<a href="#">GD210</a>	AL 102...103, AUY 22(A), AUY 28	60V, 6A, 12W(Tc=50°)		1 → E 2 → B 3 → C 4 →
<a href="#">GD210</a>	AL 102...103, AUY 22(A), AUY 28	60V, 6A, 12W(Tc=50°)		1 → E 2 → B 3 → C 4 →



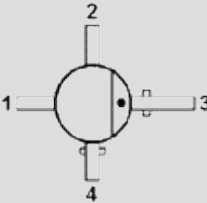

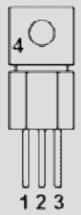
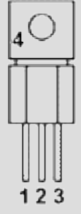
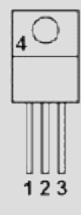










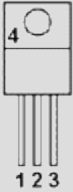
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">GD220</a> PNP Germânio	AL 102...103, AUY 22(A), AUY 28	80V, 6A, 12W(Tc=50°)  Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD220</a> PNP Germânio	AL 102...103, AUY 22(A), AUY 28	80V, 6A, 12W(Tc=50°)  Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD240</a> PNP Germânio	AD 162, 2SB474	30V, 3A, 10W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD241</a> PNP Germânio	AD 162, 2SB474	40V, 3A, 10W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD241(A,B)[Grundig]</a> NPN Silício	=BD 241A,B	=BD 241A,B  Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">GD242</a> PNP Germânio	-	50V, 3A, 10W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD243</a> PNP Germânio	-	65V, 3A, 10W  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD243[Grundig]</a> NPN Silício	=BD 243	=BD 243  Audio / potência		1 → B 2 → C 3 → E 4 → C

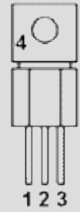
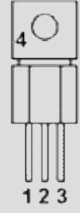
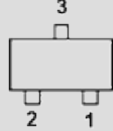





<a href="#">GD244</a>	-	75V, 3A, 10W		1 → E 2 → B 3 → C 4 →
<a href="#">GD340[Grundig]</a>	=BD 438	=BD 438		1 → E 2 → C 3 → B 4 → C
PNP Germânio		Audio / chaveamento / estágios de potência		
PNP Silício		Audio / potência		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">GD341[Grundig]</a>	=BD 437	=BD 437		1 → E 2 → C 3 → B 4 → C
NPN Silício		Audio / potência		
<a href="#">GD361[Grundig]</a>	=BD 433	=BD 433		1 → E 2 → C 3 → B 4 → C
NPN Silício		Audio / potência		
<a href="#">GD362[Grundig]</a>	=BD 434	=BD 434		1 → E 2 → C 3 → B 4 → C
PNP Silício		Audio / potência		
<a href="#">GD363[Grundig]</a>	=BD 433	=BD 433		1 → E 2 → C 3 → B 4 → C
NPN Silício		Audio / potência		
<a href="#">GD364[Grundig]</a>	=BD 434	=BD 434		1 → E 2 → C 3 → B 4 → C
PNP Silício		Audio / potência		
<a href="#">GD384[Grundig]</a>	=BD 525	=BD 525		1 → B 2 → C 3 → E 4 → C
NPN Silício		Driver/saida de audio		


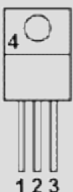



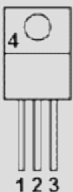
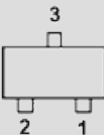
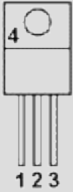
<a href="#">GD607</a> NPN Germânico	AD 161	32V, 1A, 4W(Tc=60°) Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD608</a> NPN Germânico	AD 161	25V, 1A, 4W(Tc=60°) Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD609</a> NPN Germânico	AD 161	20V, 1A, 4W(Tc=60°) Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD617</a> PNP Germânico	AD 162	32V, 1A, 4W(Tc=60°) Audio / potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">GD618</a> PNP Germânico	AD 162	25V, 1A, 4W(Tc=60°) Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">GD619</a> PNP Germânico	AD 162	20V, 1A, 4W(Tc=60°) Audio / potência		1 → E 2 → B 3 → C 4 →
<a href="#">IGD</a> MOS FET Canal N	=2SK1215	=2SK1215-D SMD (2mm)		1 → 2 → 3 → 4 →
<a href="#">IGD</a> MOS FET Canal N	=2SK360	=2SK360-D SMD		1 → 2 → 3 → 4 →

<a href="#">RTGD0101</a>	-	+15V, 0,5A(Ta=75°C), Igt/Ih<0,5/<10mA		1 → K 2 → G 3 → A 4 →
Tiristor GTO (Gate Turn Off)	-	Uso diverso		
<a href="#">RTGD0103</a>	-	=RTGD 0101, +30V		1 → K 2 → G 3 → A 4 →
Tiristor GTO (Gate Turn Off)	-	Uso diverso		
<a href="#">RTGD0106</a>	-	=RTGD 0101, +60V		1 → K 2 → G 3 → A 4 →
Tiristor GTO (Gate Turn Off)	-	Uso diverso		
<a href="#">RTGD0110</a>	-	=RTGD 0101, +100V		1 → K 2 → G 3 → A 4 →
Tiristor GTO (Gate Turn Off)	-	Uso diverso		
<a href="#">RTGD0115</a>	-	=RTGD 0101, +150V		1 → K 2 → G 3 → A 4 →
Tiristor GTO (Gate Turn Off)	-	Uso diverso		
<a href="#">RTGD0120</a>	-	=RTGD 0101, +200V		1 → K 2 → G 3 → A 4 →
Tiristor GTO (Gate Turn Off)	-	Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">RTGD0125</a>	-	=RTGD 0101, +250V		1 → K 2 → G 3 → A 4 →
Tiristor GTO (Gate Turn Off)	-	Uso diverso		
<a href="#">RTGD0130</a>	-	=RTGD 0101, +300V		1 → K 2 → G 3 → A 4 →
Tiristor GTO (Gate Turn Off)	-	Uso diverso		






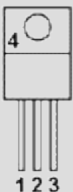
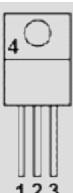

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">KSC1008</a>  NPN Silício	BC 639, 2SD667, 2SD1226, 2SD1616A	80V, 0,7A, 0,8W, 50MHz  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">KSC1009</a>  NPN Silício	2SC2383, 2SC3228, 2SC3332, 2SD1812	160/140V, 0,7A, 0,8W, 50MHz  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">KSC1070(-1,-2)</a>  NPN Silício	=2SC1070	=2SC1070  Pré e entrada UHF		1 → E 2 → B 3 → C 4 → B
<a href="#">KSC1072</a>  NPN Silício	BC 337A, BC 637, BC 639, 2SD1226	60V, 0,7A, 0,8W  Driver/saída de audio		1 → C 2 → B 3 → E 4 →
<a href="#">KSC1096</a>  NPN Silício	=2SC1096	=2SC1096, 2A  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC1098</a>  NPN Silício	=2SC1098	=2SC1098, 2A  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC1173</a>  NPN Silício	=2SC1173	=2SC1173  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC1187</a>  NPN Silício	=2SC1187	=2SC1187  FI - TV		1 → C 2 → B 3 → E 4 →



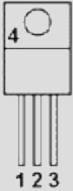
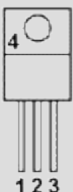
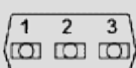



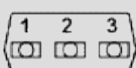
<a href="#">KSC1188</a>	=2SC1188	=2SC1188		1 → C 2 → B 3 → E 4 →
NPN Silício		FI - TV		
<a href="#">KSC1222</a>	=2SC1222	=2SC1222		1 → C 2 → B 3 → E 4 →
NPN Silício		Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC1330</a>	=2SC1330	=2SC1330		1 → C 2 → B 3 → E 4 →
NPN Silício		Uso geral		
<a href="#">KSC1393</a>	=2SC1393	=2SC1393		1 → C 2 → E 3 → B 4 →
NPN Silício		Pré e entrada VHF / baixo ruído		
<a href="#">KSC1394</a>	=2SC1394	=2SC1394		1 → C 2 → E 3 → B 4 →
NPN Silício		Mixer VHF		
<a href="#">KSC1395</a>	=2SC1395	=2SC1395		1 → C 2 → B 3 → E 4 →
NPN Silício		Oscilador VHF		
<a href="#">KSC1506</a>	BF 299, BF 393, BF 420A, 2SC3468	300/300V, 0,1A, 0,75W, 80MHz		1 → C 2 → B 3 → E 4 →
NPN Silício		Saida de video		
<a href="#">KSC1507</a>	=2SC1505	=2SC1505		1 → B 2 → C 3 → E 4 → C
NPN Silício		Saida de video / potência		

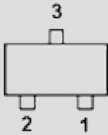
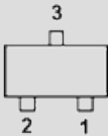
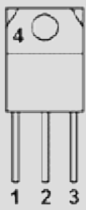
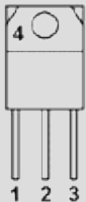

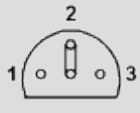
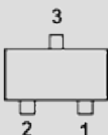
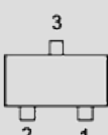
<a href="#">KSC1520</a>	=2SC1519	=2SC1519		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC1520A</a>	=2SC1520	=2SC1520		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC1623</a>	=2SC1623	=2SC1623		1 → E 2 → B 3 → C 4 →
<a href="#">KSC1674</a>	=2SC1674	=2SC1674		1 → C 2 → B 3 → E 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC1675</a>	=2SC1675	=2SC1675		1 → C 2 → B 3 → E 4 →
<a href="#">KSC1730</a>	=2SC1730	=2SC1730		1 → B 2 → C 3 → E 4 →
<a href="#">KSC1815</a>	=2SC1815	=2SC1815		1 → C 2 → B 3 → E 4 →
<a href="#">KSC184</a>	BF 240...241, BF 254...255, BF 594...595	30V, 0,05A, 0,25W, 100MHz Mixer e FI de AM / estágios pré e entrada		1 → C 2 → B 3 → E 4 →

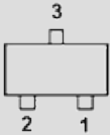
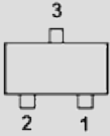
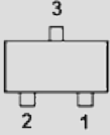
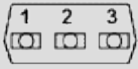
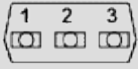
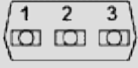
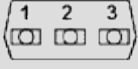
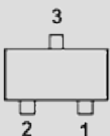
<a href="#">KSC1845</a>	=2SC1845	=2SC1845		1 → B 2 → C 3 → E 4 →
NPN Silício		Uso geral / baixo ruído		
<a href="#">KSC1983</a>	=2SC1983	=2SC1983		1 → B 2 → C 3 → E 4 → C
NPN Silício		alto ganho de corrente		
<a href="#">KSC2001</a>	=2SC2001	=2SC2001		1 → B 2 → C 3 → E 4 →
NPN Silício		Uso geral		
<a href="#">KSC2002</a>	=2SC2002	=2SC2002		1 → B 2 → C 3 → E 4 →
NPN Silício		Uso geral		
<a href="#">KSC2003</a>	=2SC2003	=2SC2003		1 → B 2 → C 3 → E 4 →
NPN Silício		Uso geral		
<a href="#">KSC2073</a>	=2SC2073	=2SC2073		1 → B 2 → C 3 → E 4 → C
NPN Silício		Deflexão vertical em TV / Audio / potência		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC2223</a>	=2SC2223	=2SC2223		1 → E 2 → B 3 → C 4 →
NPN Silício		SMD		
<a href="#">KSC2233</a>	=2SC2233	=2SC2233		1 → B 2 → C 3 → E 4 → C
NPN Silício		Estágio horizontal - TV		

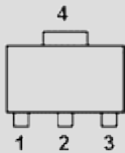
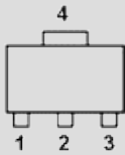
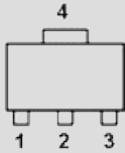
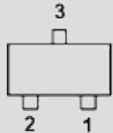
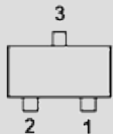
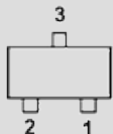
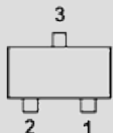
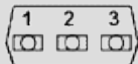




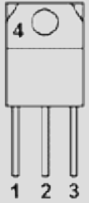
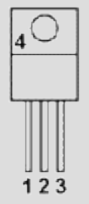



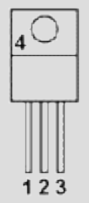
<a href="#">KSC2310</a>	BF 391...393, BF 420, BF 422	200/150V, 0,05A, 0,8W, 100MHz		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2316</a>	2SC2235, 2SC2383, 2SD667, 2SD1665	120V, 0,8A, 0,9W, 120MHz		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2328A</a>	MPS650...51, 2SD1055, 2SD1100, 2SD1227	30V, 2A, 1W, 120MHz		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2330</a>	BF 393, BF 420A, 2SC3249, 2SC3468	300/300V, 0,1A, 1W, 50MHz		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2331</a>	BC 639, 2SC2235, 2SD667, 2SD1665	80V, 0,7A, 1W, 50MHz		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2334</a>	=2SC2334	=2SC2334		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC2335</a>	=2SC2335	=2SC2335		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC2340</a>	BF 485, BF 487, 2N6517, 2SC3469	350/350V, 0,1A, 1W, >50MHz		1 → B 2 → C 3 → E 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

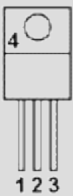
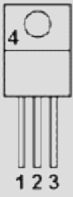




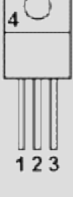
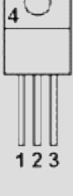

<a href="#">KSC2383</a>	=2SC2383	=2SC2383		1 → B 2 → C 3 → E 4 →
NPN Silício		TV Col / audio / deflexão vertical		
<a href="#">KSC2500</a>	=2SC2500	=2SC2500		1 → B 2 → C 3 → E 4 →
NPN Silício		Baixa saturação		
<a href="#">KSC2517</a>	=2SC2517	=2SC2517		1 → B 2 → C 3 → E 4 → C
NPN Silício		Audio / chaveamento / estágios de potência		
<a href="#">KSC2518</a>	=2SC2518	=2SC2518		1 → B 2 → C 3 → E 4 → C
NPN Silício		Chaveamento / potência		
<a href="#">KSC2669</a>	=2SC2669	=2SC2669		1 → B 2 → C 3 → E 4 →
NPN Silício		FI AM-FM		
<a href="#">KSC2682</a>	=2SC2682	=2SC2682		1 → E 2 → C 3 → B 4 → C
NPN Silício		Driver de audio / potência		
<a href="#">KSC2688</a>	=2SC2688	=2SC2688		1 → E 2 → C 3 → B 4 → C
NPN Silício		Saida de video / potência		
<a href="#">KSC2690(A)</a>	=2SC2690(A)	=2SC2690(A)		1 → E 2 → C 3 → B 4 → C
NPN Silício		Uso diverso		
<a href="#">KSC2710</a>	BC 337...338, BC 635, BC 637, 2SC2710	40V, 0,5A, 0,3W		1 → B 2 → C 3 → E 4 →
NPN Silício		Uso geral		



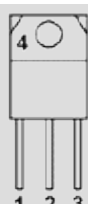
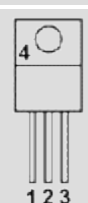
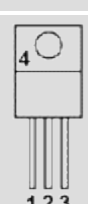

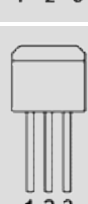
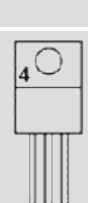
<a href="#">KSC2715</a>	=2SC2715	=2SC2715		1 → E 2 → B 3 → C 4 →
NPN Silício		SMD		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC2734</a>	=2SC2734	=2SC2734		1 → E 2 → B 3 → C 4 →
NPN Silício		SMD		
<a href="#">KSC2749</a>	=2SC2749	=2SC2749		1 → B 2 → C 3 → E 4 → C
NPN Silício		Chaveamento / potência		
<a href="#">KSC2751</a>	=2SC2751	=2SC2751		1 → B 2 → C 3 → E 4 → C
NPN Silício		Chaveamento / potência		
<a href="#">KSC2752</a>	=2SC2752	=2SC2752		1 → E 2 → C 3 → B 4 → C
NPN Silício		Chaveamento / potência		
<a href="#">KSC2753</a>	=2SC2753	=2SC2753		1 → C 2 → E 3 → B 4 →
NPN Silício		UHF		
<a href="#">KSC2755</a>	=2SC2755	=2SC2755		1 → E 2 → B 3 → C 4 →
NPN Silício		SMD		
<a href="#">KSC2756</a>	=2SC2756	=2SC2756		1 → E 2 → B 3 → C 4 →
NPN Silício		SMD		

<a href="#">KSC2757</a>	=2SC2757	=2SC2757		1 → E 2 → B 3 → C 4 →
<a href="#">KSC2758</a>	=2SC2758	=2SC2758		1 → E 2 → B 3 → C 4 →
<a href="#">KSC2759</a>	=2SC2759	=2SC2759		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC2784</a>	=2SC2784	=2SC2784 Uso geral / baixo ruído		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2785</a>	=2SC2785	=2SC2785 Uso geral		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2786</a>	=2SC2786	=2SC2786 FM		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2787</a>	=2SC2787	=2SC2787 AM		1 → B 2 → C 3 → E 4 →
<a href="#">KSC2859</a>	=2SC2859	=2SC2859		1 → E 2 → B 3 → C 4 →

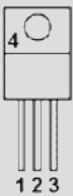
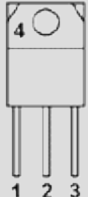
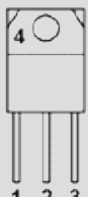
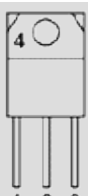




<a href="#">KSC2881</a>	=2SC2881	=2SC2881		1 → E 2 → C 3 → B 4 →
<a href="#">KSC2883</a>	=2SC2883	=2SC2883		1 → E 2 → C 3 → B 4 →
<a href="#">KSC2982</a>	=2SC2982	=2SC2982		1 → E 2 → C 3 → B 4 →
<a href="#">KSC3120</a>	=2SC3120	=2SC3120		1 → E 2 → B 3 → C 4 →
<a href="#">KSC3123</a>	=2SC3123	=2SC3123		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC3125</a>	=2SC3125	=2SC3125		1 → E 2 → B 3 → C 4 →
<a href="#">KSC3265</a>	=2SC3265	=2SC3265		1 → E 2 → B 3 → C 4 →
<a href="#">KSC3488</a>	BC 337...338, BC 635, BC 637, 2SC3488	30V, 0,3A, 0,3W Uso geral		1 → B 2 → C 3 → E 4 →

<a href="#">KSC3502</a>	=2SC3502	=2SC3502		1 → E 2 → C 3 → B 4 → C
NPN Silício		Saida de video / alta definição		
<a href="#">KSC3503</a>	=2SC3503	=2SC3503		1 → E 2 → C 3 → B 4 → C
NPN Silício		Saida de video / alta definição		
<a href="#">KSC3552</a>	=2SC3552	=2SC3552		1 → B 2 → C 3 → E 4 → C
NPN Silício		Chaveamento / potência		
<a href="#">KSC3569</a>	=2SC3569	=2SC3569		1 → B 2 → C 3 → E 4 →
NPN Silício		Chaveamento / potência		
<a href="#">KSC388</a>	=2SC388	=2SC388ATM		1 → C 2 → B 3 → E 4 →
NPN Silício		Uso diverso		
<a href="#">KSC3953</a>	=2SC3953	=2SC3953		1 → E 2 → C 3 → B 4 → C
NPN Silício		Saida de video / alta definição		
<a href="#">KSC5019</a>	2SC4484, 2SD1246, 2SD1835, 2SD2177	30V, 2A, 0,75W, 150MHz		1 → B 2 → C 3 → E 4 →
NPN Silício		Baixa saturação		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC5020</a>	BUT 11(A), MJE 13071, 2SC3086, 2SD841	800/500V, 3A, 40W, <500/3300ns		1 → B 2 → C 3 → E 4 → C
NPN Silício		Chaveamento / potência		

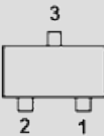
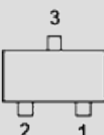
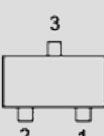
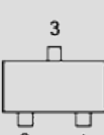
<a href="#">KSC5020F</a>	BUT 11(A)F, 2SC3749, 2SC4517, 2SC4908	=KSC 5020, , 30W  Chaveamento / potência		1 → B 2 → C 3 → E 4 →
<a href="#">KSC5021</a>	BUT 11(A), MJE 13071, 2SC3047, 2SC3087	800/500V, 5A, 50W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5022</a>	BUW 11(A), BUW 131(A), BUV 82...83	-/500V, 4A, 60W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5023</a>	BUP 22B...C, 2SC3089, 2SC3449, 2SC3636	800/500V, 7A, 80W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5024</a>	BUV 47(A), BUW 12(A), 2SC3450, 2SC3637	800/500V, 10A, 90W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5025</a>	BUV 48(A), BUW 13(A), 2SC3451, 2SC3638	800/500V, 15A, 100W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5026</a>	MJE 8500, 2SC3178, 2SC3456, 2SC4230	1100/800V, 1,5A, 40W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5027</a>	MJE 8502, 2SC3050, 2SC3457	1100/800V, 3A, 50W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5028</a>	2SC3387, 2SC3459, 2SC4236	-/800V, 3A, 80W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C


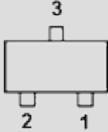
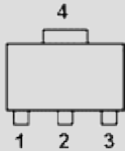
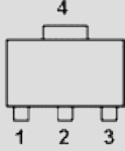




Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC5029</a>  NPN Silício	2SC3387, 2SC3459, 2SC4236	1100/800V, 4,5A, 90W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5030</a>  NPN Silício	BUV 89, 2SC3466, 2SC3643	1100/800V, 6A, 100W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5031</a>  NPN Silício	BUV 70...71, 2SC3461, 2SC4237	-/800V, 8A, 140W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5039</a>  NPN Silício	BUT 11(A), MJE 13071, 2SC3047, 2SC3087	800/400V, 5A, 70W, <1/3,8μs  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5039F</a>  NPN Silício	BUT 11(A)F, 2SC3750, 2SC3795, 2SC4518	=KSC 5039, , 30W  Chaveamento / potência		1 → B 2 → C 3 → E 4 →
<a href="#">KSC5047</a>  NPN Silício	-	100V, 15A, 100W  Chaveamento / baixa saturação		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5054</a>  NPN Silício	2SC3129, 2SC3588, 2SC4499	500/400V, 0,5A, 10W, <1/3,5μs  Chaveamento / potência		1 → B 2 → C 3 → E 4 →
<a href="#">KSC5060</a>  NPN Silício	BUT 11(A), MJE 13071, 2SC3086, 2SD841	800/500V, 3A, 40W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C













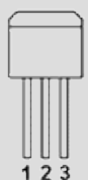
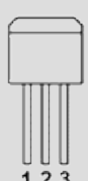
<a href="#">KSC5061</a>	BUT 11(A), MJE 13071, 2SC3047, 2SC3087	800/500V, 5A, 50W, <500/3300ns  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC5086</a>	2SC3892A, 2SC4762, 2SC4916	1500/800V, 7A, 50W  Deflexão horizontal TVC		1 → B 2 → C 3 → E 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">KSC5088</a>	BU 2522AF, 2SC3886A, 2SC3896, 2SC4758	1500/800V, 8A, 50W  Deflexão horizontal TVC		1 → B 2 → C 3 → E 4 →
<a href="#">KSC5089</a>	BU 2522A, 2SC3687	1500/800V, 8A, 150W  Deflexão horizontal TVC		1 → B 2 → C 3 → E 4 → C
<a href="#">KSC815</a>	=2SC815	=2SC815, 0,4W  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">KSC838</a>	BF 240...241, BF 254...255, BF 594...595	35V, 30mA, 0,25W, 250MHz  Amplificador, oscilador, FI e mixer de FM		1 → C 2 → B 3 → E 4 →
<a href="#">KSC839</a>	BF 240...241, BF 254...255, BF 594...595	35V, 0,1A, 200MHz  Amplificador, mixer, FI e oscilador AM-FM		1 → C 2 → B 3 → E 4 →
<a href="#">KSC853</a>	=2SC853	=2SC853  Uso geral		1 → C 2 → B 3 → E 4 →

<a href="#">KSC900</a>	=2SC900	=2SC900		1 → C 2 → B 3 → E 4 →
NPN Silício		Uso geral / baixo ruído		
<a href="#">KSC921</a>	BFX 59, (BF 240...241, BF 254...255)	35V, 0,1A, 250MHz		1 → C 2 → B 3 → E 4 →
NPN Silício		Pré, entrada e oscilador FM		
<a href="#">KSC945</a>	BC 174, BC 182, BC 190, BC 546, 2SB725	60V, 0,15A, 0,25W, 300MHz		1 → C 2 → B 3 → E 4 →
NPN Silício		Uso geral		

REFERÊNCIA	EQUIVALENTE	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">1LM</a>	=2SC4103	=2SC4103-M		Sem Pinout
NPN Silício		SMD (2mm)		
<a href="#">ALM</a>	=2SC3802K	=2SC3802K-M		Sem Pinout
NPN Silício		SMD		
<a href="#">BLM</a>	=2SC4772	=2SC4772-M		Sem Pinout
NPN Silício		SMD (2mm)		
<a href="#">BLM</a>	=2SC4771K	=2SC4771K-M		Sem Pinout
NPN Silício		SMD		

<a href="#">LM</a> Diodo Zener	=P6 SMB-24A	=P6 SMB-24A Estabilizador de tensão (5mm)		1 → 2 → 3 → 4 →
<a href="#">LM</a> PNP Silicio	=BF 569R	=BF 569R SMD		Sem Pinout
<a href="#">LM</a> MOS FET Canal P	=BST 120	=BST 120 SMD		1 → 2 → 3 → 4 →
<a href="#">LM</a> NPN Silicio	=2SD1000	=2SD1000-LM SMD		Sem Pinout
<a href="#">LM1014</a> NPN Silicio	=BF 273	=BF 273 Uso diverso		1 → C 2 → E 3 → B 4 →
<a href="#">LM1015</a> NPN Silicio	=BF 240	=BF 240 Uso diverso		1 → C 2 → E 3 → B 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">LM1098</a> NPN Silicio	=BF 255	=BF 255 Oscilador e mixer FM		1 → C 2 → B 3 → E 4 →
<a href="#">LM1181</a> NPN Silicio	=BC 239	=BC 239 Uso geral		1 → C 2 → B 3 → E 4 →

<a href="#">LM1403</a>	=BC 337	=BC 337		1 → C 2 → B 3 → E 4 →
NPN Silício		Driver de audio		
<a href="#">LM1404</a>	=BC 327	=BC 327		1 → C 2 → B 3 → E 4 →
PNP Silício		Driver de audio		
<a href="#">LM1410K</a>	=BC 307	=BC 307		1 → C 2 → B 3 → E 4 →
PNP Silício		Uso geral		
<a href="#">LM1427</a>	=BC 337	=BC 337		1 → C 2 → B 3 → E 4 →
NPN Silício		Driver de audio		
<a href="#">LM1428</a>	=BC 327	=BC 327		1 → C 2 → B 3 → E 4 →
PNP Silício		Driver de audio		
<a href="#">LM2501J</a>	=BC 337	=BC 337		1 → C 2 → B 3 → E 4 →
NPN Silício		Driver de audio		
<a href="#">LM2502J</a>	=BC 327	=BC 327		1 → C 2 → B 3 → E 4 →
PNP Silício		Driver de audio		
<a href="#">LM2636</a>	=BC 337	=BC 337		1 → E 2 → B 3 → C 4 →
NPN Silício		Driver de audio		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout



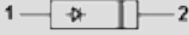

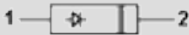



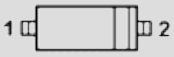
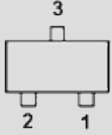
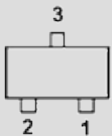
<a href="#">LM390(A)</a> PNP Silicio	=BC 328	=BC 328 Driver de audio		1 → C 2 → B 3 → E 4 →
<a href="#">LM399(A)</a> NPN Silicio	=BC 338	=BC 338 Driver de audio		1 → C 2 → B 3 → E 4 →
<a href="#">VN10LM</a> MOS FET Canal N	-	=VN 10KM, 0,32A, 1W Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN2222LM</a> MOS FET Canal N	-	=VN 2222LL, 0,26A, 1W Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">LM1011</a> -	NE548, NE645	-	Sem Imagem	Sem Pinout
<a href="#">LM1020</a> -	TDA2560	-	Sem Imagem	Sem Pinout
<a href="#">LM3046</a> -	CA3046	-	Sem Imagem	Sem Pinout
<a href="#">LM3080</a> -	CA3080	-	Sem Imagem	Sem Pinout
<a href="#">LM3086</a> -	CA3086	-	Sem Imagem	Sem Pinout

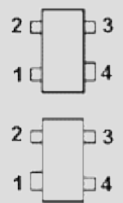
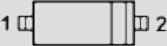

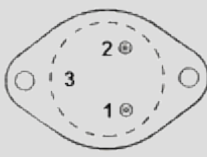
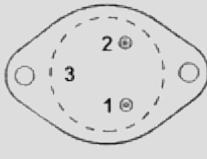
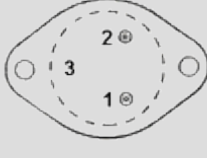
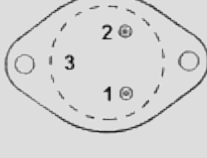
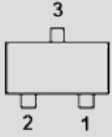
<a href="#">LM324</a> -	CA324, DBL324, GL324, KIA75902P, TA75902P	- -	Sem Imagem	Sem Pinout
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">LM339</a> -	CA	- -	Sem Imagem	Sem Pinout
<a href="#">LM339</a> -	CA339, DBL339, KIA339	- -	Sem Imagem	Sem Pinout
<a href="#">LM340</a> -	UM7812	- -	Sem Imagem	Sem Pinout
<a href="#">LM3524</a> -	CA3524, SG3524	- -	Sem Imagem	Sem Pinout
<a href="#">LM386</a> -	KA386	- -	Sem Imagem	Sem Pinout
<a href="#">LM3860 (28 PINOS)</a> -	TMS3540	- -	Sem Imagem	Sem Pinout
<a href="#">LM3860 (40 PINOS)</a> -	MD8009, MM5316 – 40 PINOS	- -	Sem Imagem	Sem Pinout

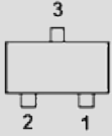
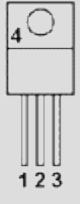
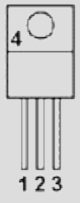
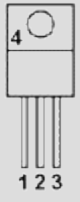
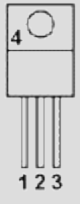
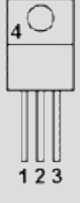
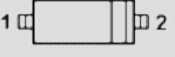
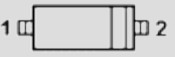
<a href="#">LM393</a> -	AN1393	- -	Sem Imagem	Sem Pinout
<a href="#">LM555SMD</a> -	MC1455	- -	Sem Imagem	Sem Pinout
<a href="#">LM567</a> -	NE567, CA567	- -	Sem Imagem	Sem Pinout
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">LM725</a> -	UA725	- -	Sem Imagem	Sem Pinout
<a href="#">LM741</a> -	UA741, AN1741	- -	Sem Imagem	Sem Pinout
<a href="#">LM747</a> -	CA747	- -	Sem Imagem	Sem Pinout
<a href="#">LM386N</a> DIL-8/SIL-8	NTE823	Audio Power Amplifier	Sem Pinout	Sem Pinout
<a href="#">LM733</a> DIL-8/DIL-14	WINTransceiver	Video Amplifier	Sem Pinout	Sem Pinout


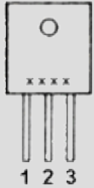
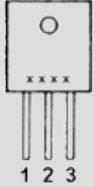
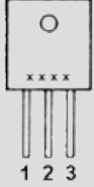
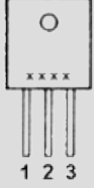
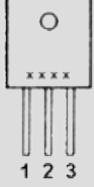

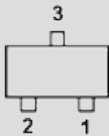
<a href="#">LM1396</a> DIL-14	WINTransceiver	Balanced modulator / Demodulator	Sem Pinout	Sem Pinout
<a href="#">LM1496</a> DIL-14	WINTransceiver	Balanced modulator / Demodulator	Sem Pinout	Sem Pinout
<a href="#">LM1596</a> DIL-14	WINTransceiver	Balanced modulator / Demodulator	Sem Pinout	Sem Pinout
<a href="#">LM2111M</a> DIL-14	NTE708	Low Power Narrowband FM IF	Sem Pinout	Sem Pinout
<a href="#">LM2113N</a> DIL-14	NTE709	Low Power Narrowband FM IF	Sem Pinout	Sem Pinout
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">LM3028</a> DIL-8	NTE724	HF Amplifier	Sem Pinout	Sem Pinout
<a href="#">LM3065N</a> DIL-14	NTE712	FM IF Amplifier and Discriminator	Sem Pinout	Sem Pinout
<a href="#">LM3089N</a> DIL-16	NTE788	Low Power Narrowband FM IF	Sem Pinout	Sem Pinout

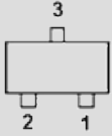
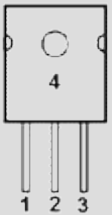
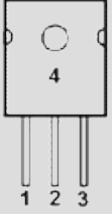
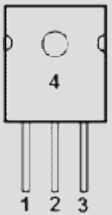

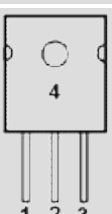
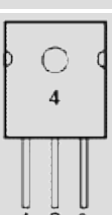
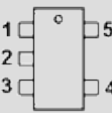




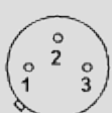
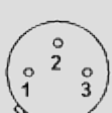
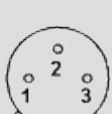
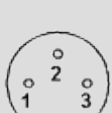
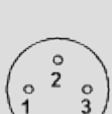

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">03P4MG(C)</a> Tiristor	BT 149/..., MCR 606-..., TAG 59-...	400V, 0,3A(Tc=30°C), Igt/Ih <0,05/<5mA Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">03P5MG(C)</a> Tiristor	BT 149/..., MCR 606-..., TAG 59-...	=03 P4MG, 500V Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BY126(M,GP,MGP)</a> Diodo Silício	BY 127, BY 134, BY 226, 2N4005...4007	650V, 1A Retificador	 	1 → A 2 → K 3 → 4 →
<a href="#">BY226(GP,MGP)</a> Diodo Silício	BY 253...255, BY 259/600, 1N5397...99	650V, 1,5A Retificador	 	1 → A 2 → K 3 → 4 →
<a href="#">BY227(GP,MGP)</a> Diodo Silício	BY 255, BY 259/1000, BY 350/1300	=BY 226, 1250V Retificador	 	1 → A 2 → K 3 → 4 →
<a href="#">MG</a> Diodo Zener	=P6 SMB-51A	=P6 SMB-51A Estabilizador de tensão (5mm)		1 → 2 → 3 → 4 →
<a href="#">MG</a> PNP Silício	=2SA1235	=2SA1235-G SMD		Sem Pinout
<a href="#">MG</a> PNP Silício	=2SA1602	=2SA1602-G SMD (2mm)		Sem Pinout



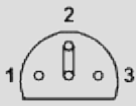





<a href="#">MG(p)</a> MOS FET Canal N	=BF 994S	=BF 994S SMD		1 → 2 → 3 → 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">MGH</a> Diodo Zener	=SM 15T...	=SM 15T 150 Estabilizador de tensão (8X5mm)		1 → A 2 → K 3 → 4 →
<a href="#">MGK</a> Diodo Zener	=SM 15T...	=SM 15T 150A Estabilizador de tensão (8X5mm)		1 → A 2 → K 3 → 4 →
<a href="#">MGM20N45</a> Transistor IBGT Canal N (MOS)	GN 6020C, GT 25J101	450V, 20A, 100W Transistor Iso-Gate		
<a href="#">MGM20N50</a> Transistor IBGT Canal N (MOS)	GN 6020C, GT 25J101	=MGM 20 N45, 500V Transistor Iso-Gate		
<a href="#">MGM5N45</a> Transistor IBGT Canal N (MOS)	GT 15J101	450V, 5A, 50W Transistor Iso-Gate		
<a href="#">MGM5N50</a> Transistor IBGT Canal N (MOS)	GT 15J101	=MGM 5 N45, 500V Transistor Iso-Gate		
<a href="#">MGO</a> NPN Silicio	=2SC5109	=2SC5109-O SMD		Sem Pinout









<a href="#">MGO</a>	=2SC5110	=2SC5110-O SMD (2mm)		Sem Pinout
<a href="#">MGP20N14CL</a>	-	>135V, 20A, 150W Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
<a href="#">MGP20N35CL</a>	-	>320V, 20A, 150W Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
<a href="#">MGP20N40CL</a>	-	>320V, 20A, 150W Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
<a href="#">MGP20N45,N50</a>	-	=MGM 20 N45..50 Uso diverso		1 → G 2 → C 3 → E 4 → C
<a href="#">MGP5N45,N50</a>	GN 6010A	=MGM 5 N45..50 Uso diverso		1 → G 2 → C 3 → E 4 → C
<a href="#">MGU</a>	=SM 15T...	=SM 15T 200 Estabilizador de tensão (8X5mm)		1 → A 2 → K 3 → 4 →
<a href="#">MGV</a>	=SM 15T...	=SM 15T 200A Estabilizador de tensão (8X5mm)		1 → A 2 → K 3 → 4 →

<a href="#">MGW</a> Diodo Zener	=SM 15T...	=SM 15T 220 Estabilizador de tensão (8X5mm)		1 → A 2 → K 3 → 4 →
<a href="#">MGW12N120</a> Transistor IBGT Canal N (MOS)	GT 25Q101	1200V, 20A, 123W Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
<a href="#">MGW12N120D</a> Transistor IBGT Canal N (MOS)	-	=MGW 12N120 Transistor Iso-Gate / diodo interno Emissor-Coletor		1 → G 2 → C 3 → E 4 → C
<a href="#">MGW20N120</a> Transistor IBGT Canal N (MOS)	GT 25Q101	1200V, 28A, 174W Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
<a href="#">MGW20N60D</a> Transistor IBGT Canal N (MOS)	BUP 602D	600V, 32A, 142W Transistor Iso-Gate / diodo (Emissor->Coletor)		1 → G 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">MGW30N60</a> Transistor IBGT Canal N (MOS)	BUP 604, GN 6050E, GT 60J101	600V, 50A, 202W Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
<a href="#">MGX</a> Diodo Zener	=SM 15T...	=SM 15T 220A Estabilizador de tensão (8X5mm)		1 → A 2 → K 3 → 4 →
<a href="#">MGY</a> NPN Silicio	=2SC5109	=2SC5109-Y SMD		Sem Pinout









<a href="#">MGY</a> NPN Silício	=2SC5110	=2SC5110-Y SMD (2mm)		Sem Pinout
<a href="#">MGY20N120D</a> Transistor IBGT Canal N (MOS)	-	1200V, 28A, 174W Transistor Iso-Gate / diodo (Emissor->Coletor)		1 → G 2 → C 3 → E 4 → C
<a href="#">MGY25N120</a> Transistor IBGT Canal N (MOS)	GN 12050E	1200V, 38A, 212W Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
<a href="#">MGY25N120D</a> Transistor IBGT Canal N (MOS)	-	=MGY 25N120 Transistor Iso-Gate / diodo (Emissor->Coletor)		1 → G 2 → C 3 → E 4 → C
<a href="#">MGY30N60D</a> Transistor IBGT Canal N (MOS)	GT 60M301	600V, 50A, 202W Transistor Iso-Gate / diodo (Emissor->Coletor)		1 → G 2 → C 3 → E 4 → C
<a href="#">MGY40N60</a> Transistor IBGT Canal N (MOS)	GN 6075E, GT 80J101	600V, 66A, 260W Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
<a href="#">MGY40N60D</a> Transistor IBGT Canal N (MOS)	-	=MGY 40N60 Transistor Iso-Gate		1 → G 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">UMG1N..UMG11N</a> NPN Silício	-	=FMG 1A..FMG 11A SMD (2mm)		Sem Pinout









<a href="#">X0301MG</a>	-	=X 0301BG, 600V		1 → K 2 → G 3 → A 4 →
Tiristor		Uso diverso		
<a href="#">X0303BG..0303MG</a>	TAG 615-...	=X 0301BG..0301MG, Igt/Ih <0,2/5mA		1 → K 2 → G 3 → A 4 →
Tiristor		Uso diverso		
<a href="#">X0304BG..0304MG</a>	TAG 615-...	=X 0301BG..0301MG, Igt/Ih <0,5/5mA		1 → K 2 → G 3 → A 4 →
Tiristor		Uso diverso		
<a href="#">X0709MG</a>	TAG 607-...	=X 0709BG, 600V		1 → K 2 → G 3 → A 4 →
Tiristor		Uso diverso		
<a href="#">Z0302MG</a>	TAG 207-...	=Z 0302BG, 600V		1 → A1 2 → Gate 3 → A2 4 →
Triac		Uso diverso		
<a href="#">Z0305BG..0305MG</a>	TAG 204A-..., TAG 205-...	=Z 0302BG..0302MG, Igt/Ih <5/5mA		1 → A1 2 → Gate 3 → A2 4 →
Triac		Uso diverso		
<a href="#">Z0309BG..0309MG</a>	TAG 203A-..., TAG 203-..., TAG 209-...	=Z 0302BG..0302MG, Igt/Ih <10/10mA		1 → A1 2 → Gate 3 → A2 4 →
Triac		Uso diverso		
<a href="#">Z0310BG..0310MG</a>	TAG 208-...	=Z 0302BG..0302MG, Igt/Ih <25/25mA		1 → A1 2 → Gate 3 → A2 4 →
Triac		Uso diverso		

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">MPSA05</a>  NPN Silício	BC 337A, BC 637, BC 639, 2SD1616(A)	60V, 0,5A, 0,625W, >100MHz  Driver de audio		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA06</a>  NPN Silício	BC 639, 2SD667, 2SD1226, 2SD1616A	=MPSA 05, 80V  Driver de audio		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA09</a>  NPN Silício	BC 184, BC 414, BC 550, 2SC2240	50V, 0,05A, 0,35W, 80MHz  Audio / baixo ruido		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA10</a>  NPN Silício	BC 167, BC 182, BC 237, BC 547, 2SD767	-/40V, 0,1A, 0,21W, >20MHz  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA12</a>  Darlington NPN Silício	BC 517, BC 617, MPSA 14, MPSA 25	20V, 0,5A, 0,625W, B>20000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA13</a>  Darlington NPN Silício	BC 517, BC 617, MPSA 25...26	30V, 0,5A, 0,625W, >125MHz, B>5000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA14</a>  Darlington NPN Silício	BC 517, BC 617, MPSA 25...26	=MPSA 13, B>10000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA16</a>  NPN Silício	2SC3069, 2SC3114, 2SC3135, 2SC3836	-/40V, 0,1A, 0,625W, >100MHz  Uso diverso		1 → C 2 → B 3 → E 4 →

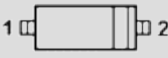
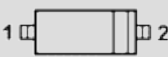


<a href="#">MPSA17</a> NPN Silício	2SC3069, 2SC3114, 2SC3135, 2SC3836	-/40V, 0,1A, 0,625W, >80MHz  Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA18</a> NPN Silício	BC 184, BC 413...414, BC 550, 2SC3112...13	45V, 0,2A, 0,625W, 160MHz, B>500  Audio / baixo ruído		1 → C 2 → B 3 → E 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">MPSA20</a> NPN Silício	BC 167, BC 183, BC 237, BC 547, 2SD767	-/40V, 0,1A, 0,35W, >125MHz  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA23</a> Darlington NPN Silício	2SD1153, 2SD1579, 2SD1978, 2SD1981	-/80V, 2A, 0,625W, B>5000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA24</a> Darlington NPN Silício	2SD1579, 2SD1978, 2SD2067, 2SD2206	=MPSA 23, -/100V  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA25</a> Darlington NPN Silício	BC 517, BC 617, 2SC4009	40V, 0,5A, 0,625W, B>10000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA26</a> Darlington NPN Silício	BC 617...618	=MPSA 25, 50V  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA27</a> Darlington NPN Silício	BC 618	=MPSA 25, 60V  Uso geral		1 → C 2 → B 3 → E 4 →




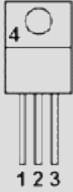

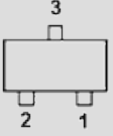
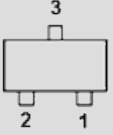




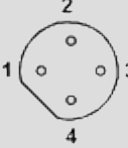
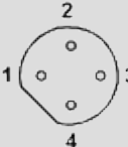
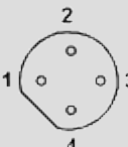




<a href="#">MPSA28</a>	Darlington NPN Silicio	BC 618	80V, 0,5A, 0,625W, B>10000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA29</a>	Darlington NPN Silicio	-	=MPSA 28, 100V  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA42</a>	NPN Silicio	BF 393, BF 420A, BFP 25, 2SD1350	300/300V, 0,5A, 0,625W, >50MHz  Saida de video		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA43</a>	NPN Silicio	BF 391...393, BF 420A, BFP 22, BFP 25	=MPSA 42, 200/200V  Saida de video		1 → C 2 → B 3 → E 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">MPSA44</a>	NPN Silicio	2SD1350A, 2SD593	500/400V, 0,3A, 0,625W, >20MHz  Saida de video		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA45</a>	NPN Silicio	2SD1350, 2SD593	=MPSA44, 400/350V  Saida de video		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA55</a>	PNP Silicio	BC 327A, BC 638, BC 640, 2SB1116(A)	60V, 0,5A, 0,625A, >100MHz  Driver de audio		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA56</a>	PNP Silicio	BC 640, 2SB647, 2SB910, 2SB1116A	=MPSA 55, 80V  Driver de audio		1 → C 2 → B 3 → E 4 →










<a href="#">MPSA62</a>	Darlington PNP Silicio	BC 516, 2SA790, 2SA1555	20V, 0,5A, 0,625W, B>20000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA63</a>	Darlington PNP Silicio	BC 516, 2SA790, 2SA1555	=MPSA 62, 30V, B>5000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA64</a>	Darlington PNP Silicio	BC 516, 2SA790, 2SA1555	=MPSA 62, 30V, B>10000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA65</a>	Darlington PNP Silicio	BC 516	30V, 0,3A, 0,625W, B>50000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA66</a>	Darlington PNP Silicio	BC 516	=MPSA 65, B>75000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA70</a>	PNP Silicio	BC 213, BC 257, BC 307, BC 557, 2SB725	-40V, 0,1A, 0,35W, >125MHz  Uso geral		1 → C 2 → B 3 → E 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">MPSA75</a>	Darlington PNP Silicio	BC 516, 2SA790, 2SA1555	40V, 0,5A, 0,625W, B>10000  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA76</a>	Darlington PNP Silicio	2SB888, 2SB1405	=MPSA 75, 50V  Uso geral		1 → C 2 → B 3 → E 4 →









<a href="#">MPSA77</a> Darlington PNP Silício	2SB888, 2SB1405	=MPSA 75, 60V  Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA92</a> PNP Silício	BF 493, BF 421A, BFP 26, 2SB1074	300/300V, 0,5A, 0,625W, >50MHz  Saida de video		1 → C 2 → B 3 → E 4 →
<a href="#">MPSA93</a> PNP Silício	BF 491...493, BF 423A, BFP 23, BFP 26	=MPSA 92, 200/200V  Saida de video		1 → C 2 → B 3 → E 4 →


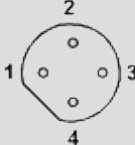


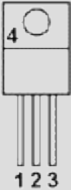



REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">MPN3401</a> Diodo PIN	BA 382	VHF (4mm)		1 → A 2 → K 3 → 4 →
<a href="#">MPN3402</a> Diodo PIN	BA 382	VHF (4mm)		1 → A 2 → K 3 → 4 →
<a href="#">MPN3403</a> Diodo PIN	BA 382	VHF (4mm)		1 → A 2 → K 3 → 4 →
<a href="#">MPN3404</a> Diodo PIN	BA 382	VHF		1 → K 2 → 3 → A 4 → A

<a href="#">MPN3411</a>	BA 379, BA 382	RF (4mm)		1 → A 2 → K 3 → 4 →
<a href="#">MPN3412</a>	BA 379, BA 382	RF (4mm)		1 → A 2 → K 3 → 4 →
<a href="#">MPN3700</a>	-	200V  VHF		1 → K 2 → 3 → A 4 → A
<a href="#">PM10PNP</a>	2SA473, 2SA1288, 2SB1273	30V, 3A, 10W, 150MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">PN</a>	=P6 SMB-10C	=P6 SMB-10C  Estabilizador de tensão (5mm)		1 → 2 → 3 → 4 →
<a href="#">PN</a>	=KRA 112S	=KRA112S  SMD		Sem Pinout
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">PN</a>	=BA 779	=BA 779  SMD		1 → 2 → 3 → 4 →
<a href="#">PN100(A)</a>	BC 639, 2SC3665, 2SC4414, 2SD1226	75V, 0,5A, 0,625W, >250MHz  Uso geral / baixo ruído		1 → C 2 → B 3 → E 4 →









<a href="#">PN101</a> NPN Silício	BC 639, 2SC3665, 2SC4414, 2SD1226	80V, 0,5A, 0,625W, >250MHz  Uso geral / baixo ruído		1 → C 2 → B 3 → E 4 →
<a href="#">PN107</a> NPN Silício	=BC 107	=BC 107, 0,2W  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">PN108</a> NPN Silício	=BC 108	=BC 108, 0,2W  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">PN109</a> NPN Silício	=BC 109	=BC 109, 0,2W  Uso geral		1 → E 2 → B 3 → C 4 →
<a href="#">PN10NPN</a> NPN Silício	2SC1173, 2SC3252, 2SD1912	30V, 3A, 10W, 150MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">PN1613</a> NPN Silício	=2N1613	=2N1613, 0,625W  Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN1711</a> NPN Silício	=2N1711	=2N1711, 0,625W  Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN1893</a> NPN Silício	=2N1893	=2N1893  Uso diverso		Sem Pinout
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout









<a href="#">PN200(A)</a> PNP Silício	BC 640, 2SA1425, 2SA1683, 2SB910	60V, 0,5A, 0,625W, >250MHz  Uso geral / baixo ruído		1 → C 2 → B 3 → E 4 →
<a href="#">PN201</a> PNP Silício	BC 640, 2SA1425, 2SA1683, 2SB910	80V, 0,5A, 0,625W, >100MHz  Uso geral / baixo ruído		1 → C 2 → B 3 → E 4 →
<a href="#">PN2218..2222(A)</a> NPN Silício	=2N2218...2222(A)	=2N2218..2222(A), 0,625W  Uso diverso		1 → E 2 → B 3 → C 4 →
<a href="#">PN2369(A)</a> NPN Silício	=2N2369(A)	=2N2369(A), 0,625W  Chaveamento rápido		1 → C 2 → B 3 → E 4 →
<a href="#">PN2484</a> NPN Silício	=2N2484	=2N2484, 0,625W  Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN2904..2907(A)</a> PNP Silício	=2N2904...2907(A)	=2N2904..2907(A), 0,625W  Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN30</a> NPN Silício	BD 241(A...C), BD 539(A...D), BD 935	50V, 3A, 25W, 1MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">PN3014</a> NPN Silício	=2N3014	=2N3014  Chaveamento rápido		Sem Pinout
<a href="#">PN3054</a> NPN Silício	BD 243(A...C), BD 539(A...D), BD 535	50V, 4A, 25W, 0,8MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C










<a href="#">PN3250..3251(A)</a> PNP Silício	=2N3250...3251(A)	=2N3250..3251(A), 0,625W Uso diverso		1 → C 2 → B 3 → E 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">PN3439..3440</a> NPN Silício	=2N3439...3440	=2N3439..3440, 0,625W Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN3548</a> PNP Silício	=2N3548	=2N3548 Uso geral		1 → C 2 → B 3 → E 4 →
<a href="#">PN3563..3569</a> NPN Silício	=2N3563...3569	=2N3563..3569, 0,625W Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN3638..3640(A)</a> Transistor Silício NPN/PNP	=2N3638...3640(A)	=2N3638..3640(A), 0,625W Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN3641..3646</a> Transistor Silício NPN/PNP	=2N3641...3646	=2N3641..3646, 0,625W Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN3684..3687</a> FET Canal N	=2N3684...3687	=2N3684..3687, 0,36W Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">PN3688..3692</a> NPN Silício	=2N3688...3692	=2N3688..3692, 0,625W Uso diverso		1 → C 2 → B 3 → E 4 →









<a href="#">PN3693..3694</a>	=2N3693...3694	=2N3693..3694, 0,625W		1 → C 2 → B 3 → E 4 →
NPN Silicio		Uso diverso		
<a href="#">PN3819</a>	=2N3819	=2N3819, 0,36W		1 → Sourc 2 → Drain 3 → Gate 4 →
FET Canal N		Uso geral / VHF		
<a href="#">PN3962</a>	=2N3962	=2N3962, 0,625W		1 → C 2 → B 3 → E 4 →
PNP Silicio		Audio / baixo ruído		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">PN4013..4014</a>	=2N4013...4014	=2N4013..4014, 0,625W		1 → C 2 → B 3 → E 4 →
NPN Silicio		Uso diverso		
<a href="#">PN4054</a>	BD 244(A...C), BD 540(A...D), BD 536	NF/S-L, 50V, 4A, 25W, 0,8MHz		1 → B 2 → C 3 → E 4 → C
PNP Silicio		Uso diverso		
<a href="#">PN4091..4093</a>	=2N4091...4093	=2N4091..4093, 0,36W		1 → Gate 2 → Sourc 3 → Drain 4 →
FET Canal N		Uso diverso		
<a href="#">PN4117..4119(A)</a>	=2N4117...4119(A)	=2N4117..4119(A), 0,35W		1 → Gate 2 → Sourc 3 → Drain 4 →
FET Canal N		Uso diverso		
<a href="#">PN4120</a>	=2N4120	=2N4120		1 → Gate 2 → Sourc 3 → Drain 4 →
FET Canal N		Chaveamento		



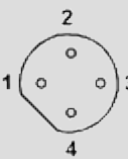

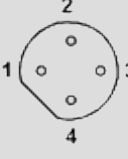
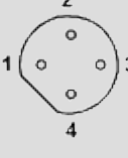





<a href="#">PN4121..4122</a>	=2N4121...4122	=2N4121..4122, 0,625W		1 → C 2 → B 3 → E 4 →
PNP Silício		Uso diverso		
<a href="#">PN4140..4143</a>	=2N4140...4143	=2N4140..4143, 0,625W		1 → C 2 → B 3 → E 4 →
Transistor Silício NPN/PNP		Uso diverso		
<a href="#">PN4220..4224</a>	=2N4220...4224	=2N4220..4224, 0,36W		1 → Gate 2 → Sourc 3 → Drain 4 →
FET Canal N		Uso diverso		
<a href="#">PN4248..4250(A)</a>	=2N4248...4250(A)	=2N4248..4250(A), 0,625W		1 → C 2 → B 3 → E 4 →
PNP Silício		Uso diverso		
<a href="#">PN4257..4258(A)</a>	=2N4257...4258(A)	=2N4257..4258(A), 0,625W		1 → C 2 → B 3 → E 4 →
PNP Silício		Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">PN4274..4275</a>	=2N4274...4275	=2N4274..4275, 0,625W		1 → C 2 → B 3 → E 4 →
NPN Silício		Uso diverso		
<a href="#">PN4302..4304</a>	=2N4302...4304	=2N4302..4304, 0,36W		1 → Gate 2 → Sourc 3 → Drain 4 →
FET Canal N		Uso diverso		
<a href="#">PN4313</a>	=2N4313	=2N4313, 0,625W		1 → C 2 → B 3 → E 4 →
PNP Silício		Chaveamento		







<a href="#">PN4338..4339</a> FET Canal N	=2N4338...4339	=2N4338..4339, 0,36W Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">PN4342..4343</a> FET Canal P	=2N4342...4343	=2N4342..4343, 0,35W Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">PN4354..4357</a> PNP Silicio	=2N4354...4357	=2N4354..4357, 0,625W Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN4360</a> FET Canal P	=2N4360	=2N4360, 0,35W Uso geral / baixo ruído		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">PN4391..4393</a> FET Canal N	=2N4391...4393	=2N4391..4393, 0,36W Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">PN4416(A)</a> FET Canal N	=2N4416(A)	=2N4416(A), 0,36W Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">PN4423</a> PNP Silicio	=2N4423	=2N4423, 0,625 Chaveamento		1 → C 2 → B 3 → E 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">PN4856..4861</a> FET Canal N	=2N4856...4861	=2N4856..4861, 0,36W Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →

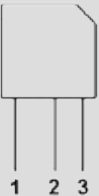
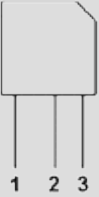
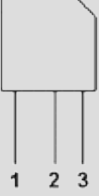
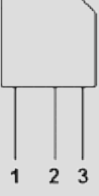
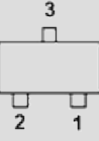
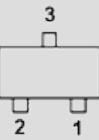
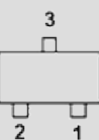
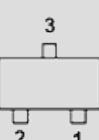
<a href="#">PN4888..4889</a>	=2N4888...4889	=2N4888..4889, 0,625		1 → C 2 → B 3 → E 4 →
PNP Silicio		Uso diverso		
<a href="#">PN4916..4917</a>	=2N4916...4917	=2N4916..4917, 0,625		1 → C 2 → B 3 → E 4 →
PNP Silicio		Uso diverso		
<a href="#">PN4945..4946</a>	=2N4945...4946	=2N4945..4946		Sem Pinout
NPN Silicio		Uso diverso		
<a href="#">PN4965</a>	=2N4965	=2N4965		Sem Pinout
PNP Silicio		Uso geral		
<a href="#">PN5033</a>	=2N5033	=2N5033, 0,35		1 → Gate 2 → Sourc 3 → Drain 4 →
FET Canal P		Uso geral		
<a href="#">PN5126..5137</a>	=2N5126...5137	=2N5126..5137, 0,625W		1 → C 2 → B 3 → E 4 →
NPN Silicio		Uso diverso		
<a href="#">PN5138..5139</a>	=2N5139...5139	=2N5138..5139, 0,625W		1 → C 2 → B 3 → E 4 →
PNP Silicio		Uso diverso		
<a href="#">PN5140..5143</a>	=2N5139...5139	=2N5140..5143, 0,625W		1 → C 2 → B 3 → E 4 →
PNP Silicio		Uso diverso		
<a href="#">PN5163</a>	=2N5163	=2N5163, 0,36W		1 → Gate 2 → Sourc 3 → Drain 4 →
FET Canal N		VHF		

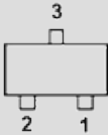
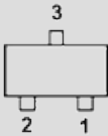
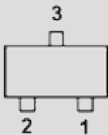
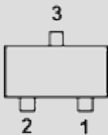
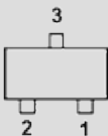
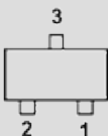
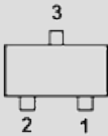
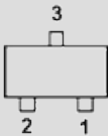
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">PN5179</a>  NPN Silício	=2N5179	=2N5179, 0,625W  VHF-UHF / baixo ruído		1 → C 2 → E 3 → B 4 →
<a href="#">PN5415..5416</a>  PNP Silício	=2N5415...5416	=2N5415..5416, 0,625W  Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN5432..5434</a>  FET Canal N	=2N5432...5434	=2N5432..5434  Uso diverso		1 → Gate 2 → Sourc 3 → Drain 4 →
<a href="#">PN5447..5449</a>  Transistor Silício NPN/PNP	=2N5447...5448	=2N5447..5448  Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN5770</a>  NPN Silício	=2N5770	=2N5770, 0,625W  UHF		1 → C 2 → B 3 → E 4 →
<a href="#">PN5816</a>  NPN Silício	=2N5816	=2N5816  Driver de áudio		1 → C 2 → B 3 → E 4 →
<a href="#">PN5855..5858</a>  Transistor Silício NPN/PNP	=2N5855...5858	=2N5855..5858, 0,625W  Uso diverso		1 → C 2 → B 3 → E 4 →
<a href="#">PN5910</a>  PNP Silício	=2N5910	=2N5910, 0,625W  Chaveamento		1 → C 2 → B 3 → E 4 →

<a href="#">PN5964..5965</a>	=2N5964...65	=2N5964..5965, 0,625W		1 → C 2 → B 3 → E 4 →
NPN Silicio		Uso diverso		
<a href="#">PN6076</a>	=2N6076	=2N6076		Sem Pinout
PNP Silicio		Uso geral		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">PN70</a>	BC 212, BC 257, BC 307, BC 557	50V, 0,2A, 0,2W, 250MHz, B>50		1 → E 2 → B 3 → C 4 →
PNP Silicio		Uso geral		
<a href="#">PN7055</a>	BF 298...299, BF 420(A), BF 422(A)	220/220V, 0,03A, 0,625W, >50MHz		1 → C 2 → B 3 → E 4 →
NPN Silicio		Saida de video		
<a href="#">PN71</a>	BC 212, BC 257, BC 307, BC 557	=PN 70, 45V, B>100		1 → E 2 → B 3 → C 4 →
PNP Silicio		Uso geral		
<a href="#">PN72</a>	BC 214, BC 259, BC 309, BC 559	=PN 70, 25V, B>50		1 → E 2 → B 3 → C 4 →
PNP Silicio		Uso geral		
<a href="#">PN918</a>	=2N918	=2N918, 0,625W		1 → C 2 → B 3 → E 4 →
NPN Silicio		VHF / UHF		
<a href="#">PN929</a>	=2N929	=2N929, 0,625W		1 → C 2 → B 3 → E 4 →
NPN Silicio		Uso geral / baixo ruido		

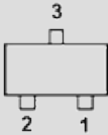
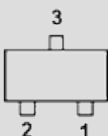
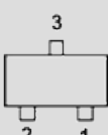
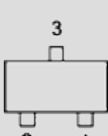
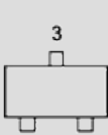
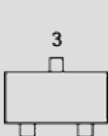
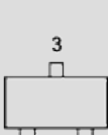
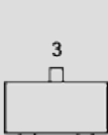
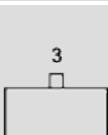
<a href="#">PN930(A)</a>	=2N930	=2N930(A), 0,625W		1 → C 2 → B 3 → E 4 →
NPN Silício		Uso diverso		

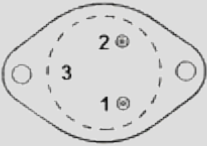
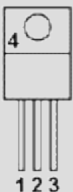
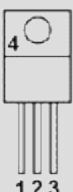
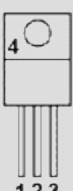
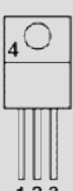
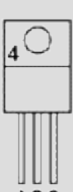
REFERÊNCIA	EQUIVALENTE	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">BStA3026</a>	CS0,8-04, BStA3026M, CS1,2-04	400V, 0,6A(Ta=45°C), Igt/Ih<10/<40mA  Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BStA3026M</a>	CS08-04,CS1,2-04, TAG612-400,TAG606-400	400V, 0,8A(Ta=45°C), Igt/Ih<10/<40mA  Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BStA3033</a>	CS0,8-05, BStA3033M, CS1,2-05	=BStA3026, 500V  Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BStA3033M</a>	CS08-05,CS1,2-05, TAG612-600,TAG606-600	=BStA3026M, 500V  Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BStA3040</a>	CS0,8-06, BStA3040M, CS1,2-06	=BStA3026, 600V  Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BStA3040M</a>	CS08-06,CS1,2-06, TAG612-600,TAG606-600	=BStA3026M, 600V  Uso diverso		1 → K 2 → A 3 → G 4 →

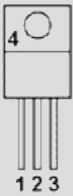
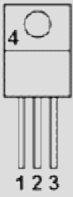
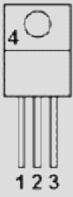
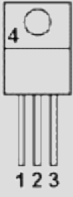
<a href="#">BStA3046</a>	CS0,8-07, BStA3046M, CS1,2-07	=BStA3026, 700V  Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BStA3046M</a>	CS08-07,CS1,2- 07, TAG612- 700,TAG606-700	=BStA3026M, 700V  Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BStA3053</a>	BStA3053M, TAG613-800, TAG606-800	=BStA3026, 800V  Uso diverso		1 → K 2 → A 3 → G 4 →
<a href="#">BStA3053M</a>	TAG612-800, TAG606-800	=BStA3026M, 800V  Uso diverso		1 → K 2 → A 3 → G 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">MMSTA06</a>	=SSTA 06	=SSTA 06, 2,9x1,6x1,1mm (Japan)  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">MMSTA13</a>	=SSTA 13	=SSTA 13, 2,9x1,6x1,1mm (Japan)  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">MMSTA14</a>	=SSTA 14	=SSTA 14, 2,9x1,6x1,1mm (Japan)  SMD		1 → E 2 → B 3 → C 4 →
<a href="#">MMSTA20</a>	=SSTA 20	=SSTA 20, 2,9x1,6x1,1mm (Japan)  SMD		1 → E 2 → B 3 → C 4 →

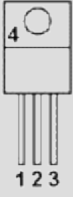
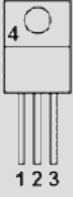
<a href="#">MMSTA28</a>	=SSTA 28	=SSTA 28, 2,9x1,6x1,1mm (Japan)		1 → E 2 → B 3 → C 4 →
NPN Silício		SMD		
<a href="#">MMSTA56</a>	=SSTA 56	=SSTA 56, 2,9x1,6x1,1mm (Japan)		1 → E 2 → B 3 → C 4 →
PNP Silício		SMD		
<a href="#">MMSTA63</a>	=SSTA 63	=SSTA 63, 2,9x1,6x1,1mm (Japan)		1 → E 2 → B 3 → C 4 →
PNP Silício		SMD		
<a href="#">MMSTA64</a>	=SSTA 64	=SSTA 64, 2,9x1,6x1,1mm (Japan)		1 → E 2 → B 3 → C 4 →
PNP Silício		SMD		
<a href="#">MMSTA70</a>	=SSTA 70	=SSTA 70, 2,9x1,6x1,1mm (Japan)		1 → E 2 → B 3 → C 4 →
PNP Silício		SMD		
<a href="#">SSTA05</a>	=MMBTA 05	=MPSA 05, SMD		1 → E 2 → B 3 → C 4 →
NPN Silício		SMD		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">SSTA06</a>	=MMBTA 06	=MPSA 06, SMD		1 → E 2 → B 3 → C 4 →
NPN Silício		SMD		
<a href="#">SSTA13</a>	=MMBTA 13	=MPSA 13, SMD		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício		SMD		

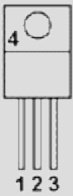
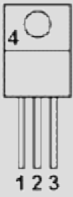
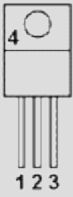
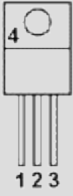
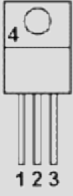
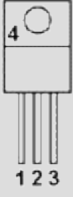
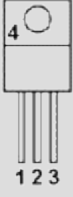


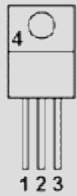
<a href="#">SSTA14</a>		=MPSA 14, SMD		1 → E 2 → B 3 → C 4 →
Darlington NPN Silicio	=MMBTA 14	SMD		
<a href="#">SSTA20</a>		=MPSA 20, SMD		1 → E 2 → B 3 → C 4 →
NPN Silicio	=MMBTA 20	SMD		
<a href="#">SSTA28</a>		=MPSA 28, SMD		1 → E 2 → B 3 → C 4 →
Darlington NPN Silicio	=MMBTA 28	SMD		
<a href="#">SSTA29</a>		=MPSA 29, SMD		1 → E 2 → B 3 → C 4 →
Darlington NPN Silicio	=MMBTA 29	SMD		
<a href="#">SSTA55</a>		=MPSA 55, SMD		1 → E 2 → B 3 → C 4 →
PNP Silicio	=MMBTA 55	SMD		
<a href="#">SSTA56</a>		=MPSA 56, SMD		1 → E 2 → B 3 → C 4 →
PNP Silicio	=MMBTA 56	SMD		
<a href="#">SSTA63</a>		=MPSA 63, SMD		1 → E 2 → B 3 → C 4 →
Darlington PNP Silicio	=MMBTA 63	SMD		
<a href="#">SSTA64</a>		=MPSA 64, SMD		1 → E 2 → B 3 → C 4 →
Darlington PNP Silicio	=MMBTA 64	SMD		
<a href="#">SSTA70</a>		=MPSA 70, SMD		1 → E 2 → B 3 → C 4 →
PNP Silicio	=MMBTA 70	SMD		

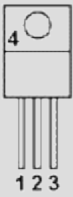
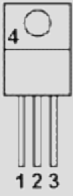
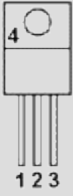
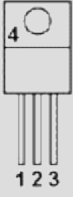
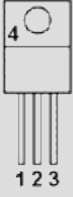
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">TIP04</a>  NPN Silício	BUW 71, BUX 16C, BUX 45, 2SC1463	400/300V, 2,5A, 65W, >3MHz  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP100</a>  Darlington NPN Silício + Diodo	BD 645, BD 897, BDW 73A...D, BDX 53A...F	60V, 8A, 80W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP101</a>  Darlington NPN Silício + Diodo	BD 647, BD 899, BDW 73B...D, BDX 53B...F	=TIP 100, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP102</a>  Darlington NPN Silício + Diodo	BD 649, BD 901, BDW 73C...D, BDX 53C...F	=TIP 100, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP105</a>  Darlington PNP Silício + Diodo	BD 646, BD 898, BDW 74A...D, BDX 54A...F	60V, 8A, 80W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP106</a>  Darlington PNP Silício + Diodo	BD 648, BD 900, BDW 74B...D, BDX 54B...F	=TIP 105, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C




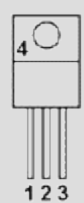

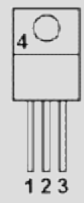

<a href="#"><u>TIP107</u></a>	Darlington PNP Silício + Diodo	BD 650, BD 902, BDW 74C...D, BDX 54C...F	=TIP 105, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP110</u></a>	Darlington NPN Silício + Diodo	BD 715, BDW 23A, BDW 53A, BDW 63A	60V, 4A, 50W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP111</u></a>	Darlington NPN Silício + Diodo	BD 717, BDW 23B, BDW 53B, BDW 63B	=TIP 110, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP112</u></a>	Darlington NPN Silício + Diodo	BDW 23C, BDW 53C, BDW 63C	=TIP 110, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

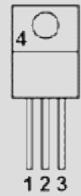



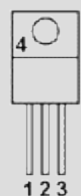

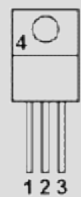
REFERÊNCIA	EQUIVALENTE	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#"><u>TIP115</u></a>	Darlington PNP Silício + Diodo	BD 716, BDW 24A, BDW 54A, BDW 64A	60V, 2A, 50W, B>1000  Audio / chaveamento / estágios de potência	 1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP116</u></a>	Darlington PNP Silício + Diodo	BD 718, BDW 24B, BDW 54B, BDW 64B	=TIP 115, 80V  Audio / chaveamento / estágios de potência	 1 → B 2 → C 3 → E 4 → C


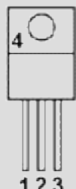
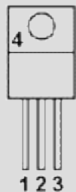
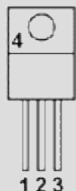
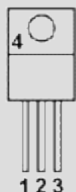


<a href="#"><u>TIP117</u></a>	Darlington PNP Silício + Diodo	BDW 24C, BDW 54C, BDW 64C	=TIP 115, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP120</u></a>	Darlington NPN Silício + Diodo	BD 645, BD 897, BDW 23A, BDW 63A	60V, 5A, 65W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP121</u></a>	Darlington NPN Silício + Diodo	BD 647, BD 899, BDW 23B, BDW 63B	=TIP 120, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP122</u></a>	Darlington NPN Silício + Diodo	BD 649, BD 901, BDW 23C, BDW 63C	=TIP 120, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP125</u></a>	Darlington PNP Silício + Diodo	BD 646, BD 898, BDW 24A, BDW 64A	60V, 5A, 65W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP126</u></a>	Darlington PNP Silício + Diodo	BD 648, BD 900, BDW 24B, BDW 64B	=TIP 125, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#"><u>TIP127</u></a>	Darlington PNP Silício + Diodo	BD 650, BD 902, BDW 24C, BDW 64C	=TIP 125, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

<a href="#">TIP130</a>	BD 647, BD 897, BDW 73A, BDX 53A	60V, 8A, 70W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
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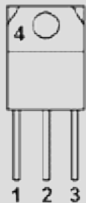
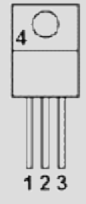
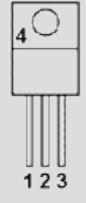

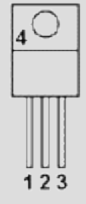
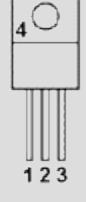

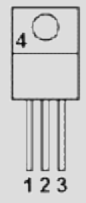
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">TIP131</a>	BD 647, BD 899, BDW 73B, BDX 53B	=TIP 130, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP132</a>	BD 649, BD 901, BDW 73C, BDX 53C	=TIP 130, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP135</a>	BD 646, BD 898, BDW 74A, BDX 54A	60V, 8A, 70W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP136</a>	BD 648, BD 900, BDW 74B, BDX 54B	=TIP 135, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP137</a>	BD 650, BD 902, BDW 74C, BDX 54C	=TIP 135, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

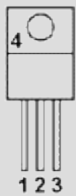
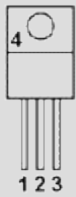




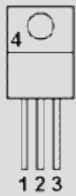
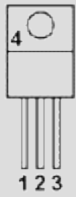
<a href="#">TIP140</a>	Darlington NPN Silicio + Diodo	BDV 65, BDV 67, BDW 83A	60V, 10A, 125W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP140F..142F</a>	Darlington NPN Silicio + Diodo	BDV 65...F	=TIP 140..142, , 60W  Uso diverso		1 → B 2 → C 3 → E 4 →
<a href="#">TIP140FI..142FI</a>	Darlington NPN Silicio + Diodo	BDV 65...F	=TIP 140..142, , 50W  Uso diverso		1 → B 2 → C 3 → E 4 →
<a href="#">TIP140T</a>	Darlington NPN Silicio + Diodo	BDT 63(A...C), BDW 93A...C, BDX 33A...E	=TIP 140  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP141</a>	Darlington NPN Silicio + Diodo	BDV 65A, BDV 67, BDW 83B	=TIP 140, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">TIP141T</a>	Darlington NPN Silicio + Diodo	BDT 63A...C, BDW 93B...C, BDX 33B...E	=TIP 141  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP142</a>	Darlington NPN Silicio +	BDV 65B, BDV 67A, BDW 83C	=TIP 140, 100V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

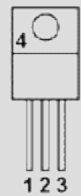
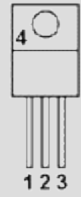
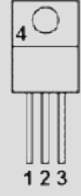
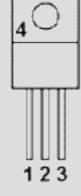




<a href="#">TIP142T</a>	Darlington NPN Silício + Diodo	BDT 63B...C, BDW 93C, BDX 33C...E	=TIP 142  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP145</a>	Darlington PNP Silício + Diodo	BDV 64, BDV 66, BDW 84A	60V, 10A, 125W, B>1000  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP145F..147F</a>	Darlington PNP Silício + Diodo	BDV 64...F	=TIP 145..147, , 60W  Uso diverso		1 → B 2 → C 3 → E 4 →
<a href="#">TIP145FI..147 FI</a>	Darlington PNP Silício + Diodo	BDV 64...F	=TIP 145..147, , 50W  Uso diverso		1 → B 2 → C 3 → E 4 →
<a href="#">TIP145T</a>	Darlington PNP Silício + Diodo	BDT 62(A...C), BDW 94A...C, BDX 34A...E	=TIP 145  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP146</a>	Darlington PNP Silício + Diodo	BDV 64A, BDV 66, BDW 84B	=TIP 145, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP146T</a>	Darlington PNP Silício + Diodo	BDT 62A...C, BDW 94B...C, BDX 34B...E	=TIP 146  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

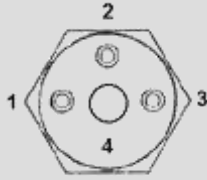
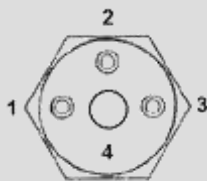
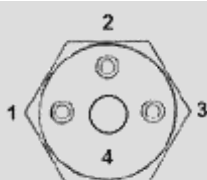

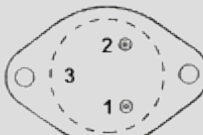
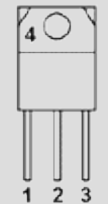
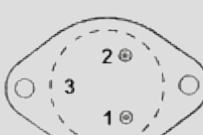
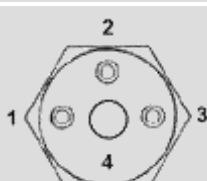
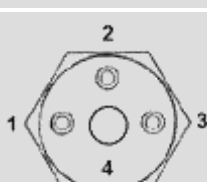
<a href="#">TIP147</a>		=TIP 145, 100V		1 → B 2 → C 3 → E 4 → C
Darlington PNP Silício + Diodo	BDV 64B, BDV 66A, BDW 84C	Audio / chaveamento / estágios de potência		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP147T</a>		=TIP 147		1 → B 2 → C 3 → E 4 → C
Darlington PNP Silício + Diodo	BDT 62B...C, BDW 94C, BDX 34C...E	Audio / chaveamento / estágios de potência		
<a href="#">TIP150</a>		300/300V, 7A, 80W, >10MHz, B>150		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	BU 810	Chaveamento / potência		
<a href="#">TIP151</a>		=TIP 151, 350/350V		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	BU 810	Uso diverso		
<a href="#">TIP152</a>		=TIP 150, 400/400V		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	BU 810	Chaveamento / potência		
<a href="#">TIP160</a>		320/320V, 10A, 50W, B>200		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	BU 920...922, BUW 66, BUW 81(A), 2SD685	Chaveamento / potência		
<a href="#">TIP161</a>		=TIP 160, 350/350V		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	BU 920...922, BUW 66, BUW 81(A), 2SD695	Chaveamento / potência		

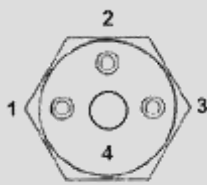

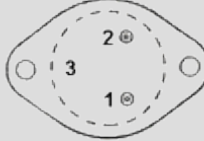
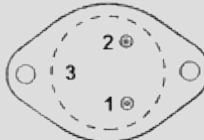



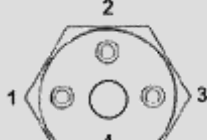


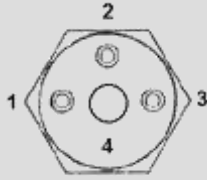

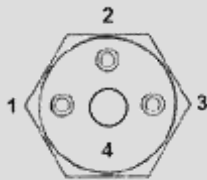

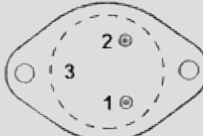
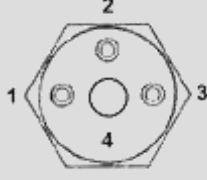
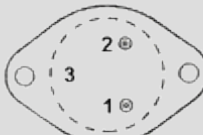
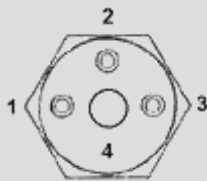
<a href="#">TIP162</a>	Darlington NPN Silício + Diodo	BU 920...922, BUW 66, BUW 81(A), 2SD685	=TIP 160, 380/380V  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP29(A...F)</a>	NPN Silício	=BD 239...	=BD 239(A..F)  Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP29..42(..)F</a>	Transistor Silício NPN/PNP		=TIP 29..42(..)F  Uso diverso		1 → B 2 → C 3 → E 4 →
<a href="#">TIP2955</a>	PNP Silício	BD 250C, BD 746C	100V, 15A, 90W  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">TIP2955T</a>	PNP Silício	BD 710, BD 810, BD 744B...F, BDT 96	70V, 10A, 75W  Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP30(A...F)</a>	PNP Silício	=BD 240...	=BD 240(A..F)  Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP3055</a>	NPN Silício	BD 249C, BD 745C	100V, 15A, 90W  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP3055T</a>	NPN Silício	BD 709, BD 809, BD 743B...F, BDT 95	70V, 10A, 75W  Uso diverso		1 → B 2 → C 3 → E 4 → C

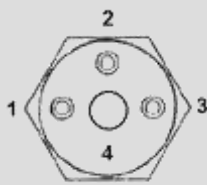


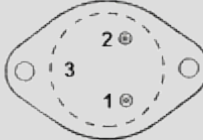
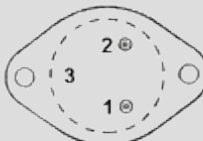
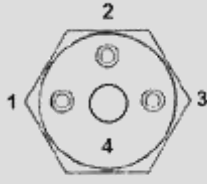
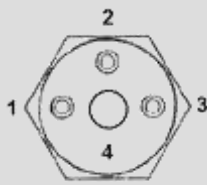

<a href="#">TIP31(A..F)</a>	=BD 241...	=BD 241(A..F) Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP32(A..F)</a>	=BD 242...	=BD 242(A..F) Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP33(A..F)</a>	=BD 245...	=BD 245(A..F) Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP34(A..F)</a>	=BD 246...	=BD 246(A..F) Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP35(A..F)</a>	=BD 249...	=BD 249(A..F) Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP36(A..F)</a>	=BD 250...	=BD 250(A..F) Uso diverso		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP41(A..F)</a>	=BD 243...	=BD 243(A..F) Uso diverso		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP42(A..F)</a>	=BD 244...	=BD 244(A..F) Uso diverso		1 → B 2 → C 3 → E 4 → C

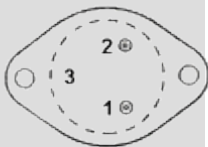
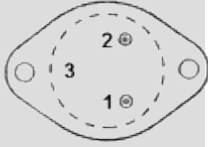
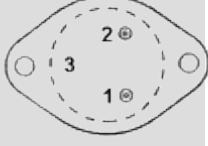
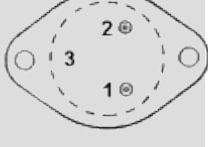
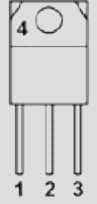
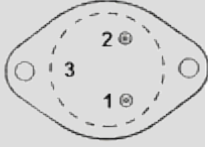
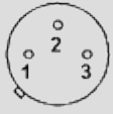
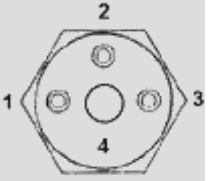
<a href="#">TIP47</a>	BUW 40(A...B), BUX 84...85, 2SC2333	350/250V, 1A, 40W, >10MHz  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP48</a>	BUW 40(A...B), BUX 84...85, 2SC2333	=TIP 47, 400/300V  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP49</a>	BUW 40(A...B), BUX 84...85, 2SC2333	=TIP 47, 450/350V  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP50</a>	BUW 40A...B, BUX 84...85, 2SC2333	=TIP 47, 500/400V  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP501</a>	2N3506...3507	40V, 3A, 1W, <100/400ns  Driver de audio / chaveamento		1 → E 2 → B 3 → C 4 →
<a href="#">TIP501</a>	2N3506...3507	=TIP 501, 60V  Uso diverso		1 → E 2 → B 3 → C 4 →
<a href="#">TIP503</a>	BUX 67, 2N3441, 2SC2528...2529, 2SD610	130V, 2A, 20W(Tc=100°), >70MHz  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP504</a>	BUX 67, 2N3441, 2SC2529, 2SD610	=TIP 503, 160V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

<a href="#">TIP505</a>	-	=TIP 503  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP506</a>	-	=TIP 504  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP507</a>	-	150V, 2A, 20W(Tc=100°), >50MHz  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP508</a>	-	=TIP 507, 4W(Tc=100°)  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP509</a>	-	130V, 4A, 30W(Tc=100°), >70MHz  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP51</a>	BU 426(A), BUW 11(A), 2SC3550	350/250V, 3A, 100W, >2,5MHz  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP510</a>	-	=TIP 509, 160V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP511</a>	-	=TIP 509  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP512</a>	-	=TIP 510  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

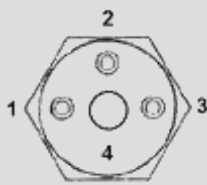
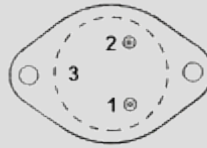
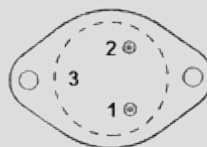
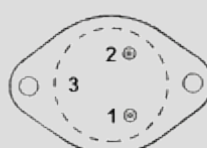
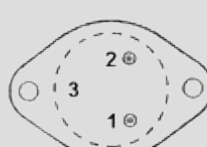
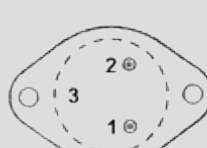
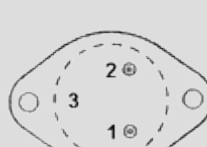


<a href="#">TIP513</a>	-	150V, 5A, 30W(Tc=100°), >40MHz		1 → E 2 → B 3 → C 4 →
PNP Silício	-	Audio / chaveamento / estágios de potência		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP514</a>	BUX 66	=TIP 513, 20W(Tc=100°)		1 → E 2 → B 3 → C 4 →
PNP Silício	-	Audio / chaveamento / estágios de potência		
<a href="#">TIP515</a>	-	130V, 12A, 80W(Tc=100°), >70MHz		1 → E 2 → B 3 → C 4 →
NPN Silício	-	Audio / chaveamento / estágios de potência		
<a href="#">TIP516</a>	-	=TIP 515, 160V		1 → E 2 → B 3 → C 4 →
NPN Silício	-	Audio / chaveamento / estágios de potência		
<a href="#">TIP517</a>	-	=TIP 515		1 → E 2 → B 3 → C 4 →
NPN Silício	-	Audio / chaveamento / estágios de potência		
<a href="#">TIP518</a>	-	=TIP 516		1 → E 2 → B 3 → C 4 →
NPN Silício	-	Audio / chaveamento / estágios de potência		
<a href="#">TIP52</a>	BU 426(A), BUW 11(A), 2SC3550	=TIP 51, 400/300V  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
NPN Silício	-	Uso diverso		1 → E 2 → B 3 → C 4 →
<a href="#">TIP520</a>	-	=TIP 519		
PNP Silício	-	Uso diverso		

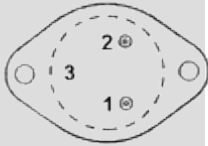
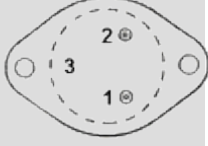
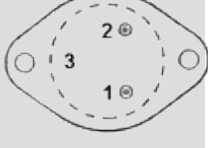
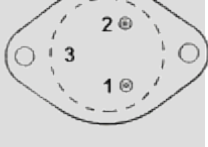
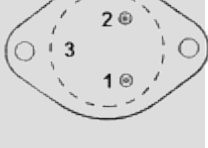
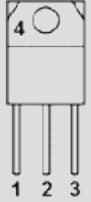
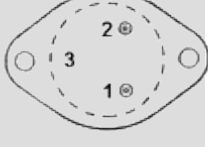
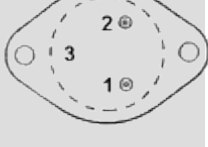
<a href="#">TIP521</a>	-	200V, 2A, 20W( $T_c=100^\circ$ ), >50MHz  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP522</a>	-	=TIP 521, 4W( $T_c=100^\circ$ )  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP523</a>	-	200V, 5A, 30W( $T_c=100^\circ$ ), >40MHz  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP524</a>	-	=TIP 523, 6W( $T_c=100^\circ$ )  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP525</a>	BUX 16(A...C), 2SC2908	250V, 5A, >40MHz  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP526</a>	-	=TIP 525  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP527</a>	BUW 96, 2SB552, 2SB613	200/200V, 8A, 60W( $T_c=100^\circ$ ), >40MHz  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP528</a>	-	=TIP 527  Chaveamento / potência		1 → E 2 → B 3 → C 4 →

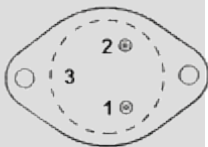
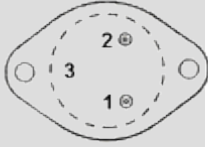
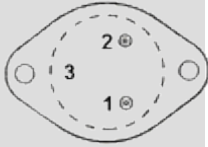
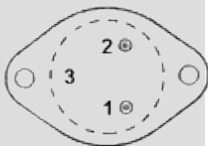
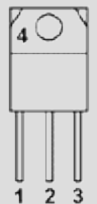
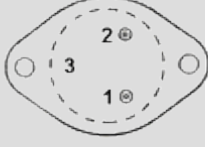
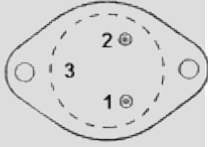
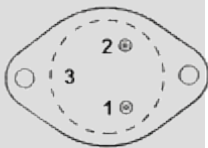
<a href="#">TIP529</a>	-	400/300V, 3A, 67W(Tc=100°), >20MHz		1 → E 2 → B 3 → C 4 →
<a href="#">TIP53</a>	BU 426(A), BUW 11(A), 2SC3550	=TIP 51, 450/350V		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP530</a>	BUY 63...64, 2SC1466, 2SC2929, 2SC2826	=TIP 529, 20W(Tc=100°)		1 → E 2 → B 3 → C 4 →
<a href="#">TIP531</a>	BUV 24...25, BUX 24...25	340/300V, 15A, 150W(Tc=100°), >50 MHz		1 → E 2 → B 3 → C 4 →
<a href="#">TIP532</a>	BUV 24...25, BUX 24...25	=TIP 531, 450/400V		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP533</a>	2N6690...6693	=TIP 531		1 → E 2 → B 3 → C 4 →
<a href="#">TIP534</a>	2N6690...6693	=TIP 532		1 → E 2 → B 3 → C 4 →
<a href="#">TIP535</a>	BUW 24...26, BUW 34...36, BUX 15	300/200V, 7,5A, 100W(Tc=100°)		1 → E 2 → B 3 → C 4 →

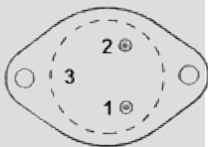
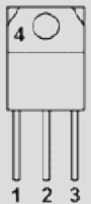
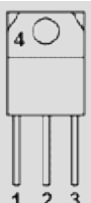
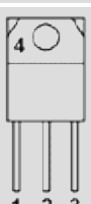
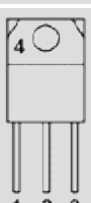
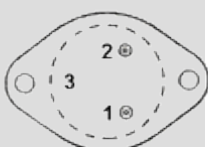
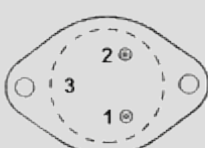
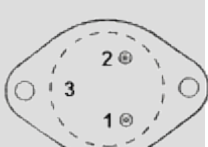
<a href="#">TIP536</a> NPN Silício	BUW 24...26, BUW 34...36, BUX 15	=TIP 535, 400/300V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP537</a> NPN Silício	BUW 25...26, BUW 34...36, BUX 15	=TIP 535, 500/400V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP538</a> NPN Silício	BUV 24...25, BUX 24...25	300/200V, 15A, 125W(Tc=100°) Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP539</a> NPN Silício	BUV 24...25, BUX 24...25	=TIP 538, 400/300V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP54</a> NPN Silício	BU 426(A), BUW 11(A), 2SC3550	=TIP 51, 500/400V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP540</a> NPN Silício	BUV 25, BUX 25	=TIP 538, 500/400V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP541</a> NPN Silício	BCX 40, BSS 15...16, 2N4237...39	50V, 2A, 1W, >150MHz Audio / chaveamento		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP542</a> NPN Silício	2N5002, 2N5004, 2N5284...5285	50V, 10A, 40W, >150MHz Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →

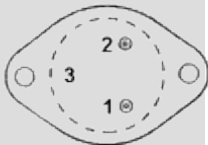
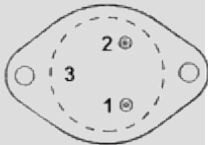
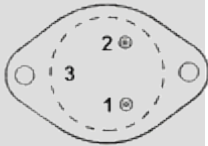
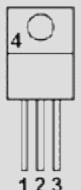
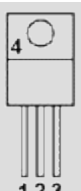
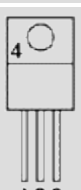
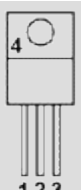
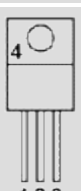


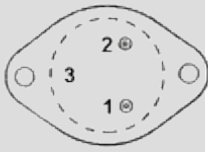
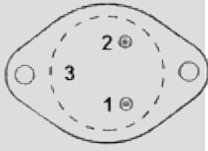
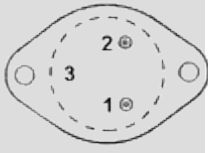
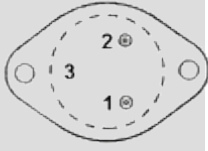
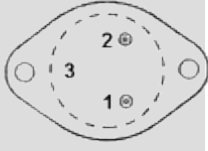
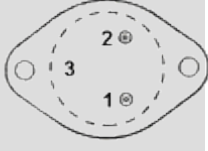
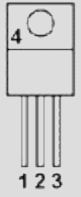
<a href="#">TIP543</a> NPN Silício	2N5002, 2N5004, 2N5284...85	=TIP 542, 75V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP544</a> PNP Silício	2N6229...6231, 2SB555...556, 2SB817	100V, 6A, 150W, >1MHz  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP545</a> PNP Silício	2N6230...6231, 2SB555...556, 2SB817	=TIP 544, 120V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP546</a> PNP Silício	2N6231, 2SB556, 2SB681, 2SB817	=TIP 544, 140V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP550</a> NPN Silício	BU 205, BU 208(A), 2SC1875, 2SD819	1200/600V, 3A, 60W(Tc=80°)  Estágio horizontal - TV		1 → E 2 → B 3 → C 4 →
<a href="#">TIP551</a> NPN Silício	BU 205, BU 208(A), 2SC1875, 2SD819	=TIP 550, 1400/700V  Estágio horizontal - TV		1 → E 2 → B 3 → C 4 →
<a href="#">TIP552</a> NPN Silício	BU 208(A), 2SC2928, 2SD350(A)	1200/600V, 5A, 60W(Tc=80°)  Estágio horizontal - TV		1 → E 2 → B 3 → C 4 →
<a href="#">TIP553</a> NPN Silício	BU 208(A), 2SC2928, 2SD350(A)	=TIP 552, 1400/700V  Estágio horizontal - TV		1 → E 2 → B 3 → C 4 →
<a href="#">TIP5530</a> PNP Silício	BD 250C, BD 746C	100V, 15A, 90W  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

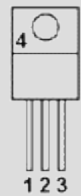
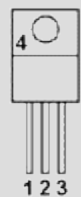
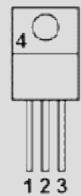
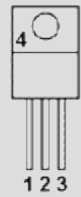
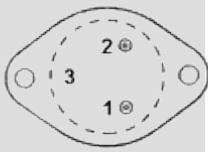
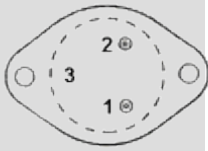
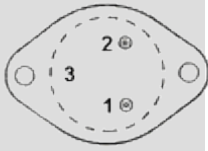
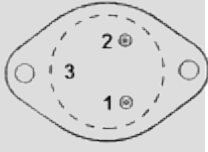
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP554</a>  NPN Silício	BUX 15, BUX 44...45, TIP 52...54, 2SC3083	400/300V, 3A, 100W, >2,5MHz  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP555</a>  NPN Silício	BUX 15, BUX 44...45, TIP 52...54, 2SC3083	=TIP 554, 450/350V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP556</a>  NPN Silício	BUX 15, BUX 45, TIP 54, 2SC3083	=TIP 554, 500/400V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP558</a>  NPN Silício	BUW 24...26, BUW 34...36, BUX 15	350/250V, 7,5A, 100W(Tc=100°)  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP559</a>  NPN Silício	BUW 24...26, BUW 34...36, BUX 15	=TIP 558, 400/300V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP55A</a>  NPN Silício	BUW 12(A), BUV 47(A), 2SC2536	350/250V, 7,5A, 50W(Tc=100°)  Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP560</a>  NPN Silício	BUW 24...26, BUW 34...36, BUX 15	=TIP 558, 450/350V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP561</a>  NPN Silício	BUW 25...26, BUW34...36, BUX 15	=TIP 558, 500/400V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →

<a href="#">TIP562</a> NPN Silício	BUW 74, BUX 14, BUX 17C, BUX 43	300/300V, 10A, 100W(Tc=100°) Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP563</a> NPN Silício	BUW 74, BUX 14, BUX 17C, BUX 43	=TIP 562, 400/400V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP564</a> NPN Silício	BUV 24...25, BUX 24...25	400/350V, 10A, 150W(Tc=100°) Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP565</a> NPN Silício	BUV 24...25, BUX 24...25	=TIP 564, 450/400V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP56A</a> NPN Silício	BUW 12(A), BUV 47(A), 2SC2536	=TIP 55A, 400/300V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP575</a> NPN Silício	BUX 15, BUX 45, TIP 51...54, 2SC3041	350/200V, 3A, 100W, >10MHz Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP575A</a> NPN Silício	BUX 15, BUX 45, TIP 52...54, 2SC3041	=TIP 575, 400/250V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP575B</a> NPN Silício	BUX 15, BUX 45, TIP 53...54, 2SC3041	=TIP 575, 450/300V Chaveamento / potência		1 → E 2 → B 3 → C 4 →

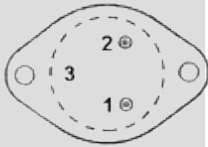
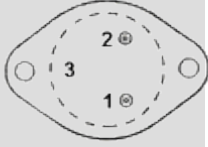
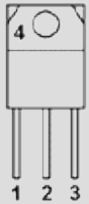
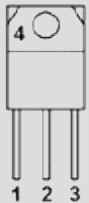
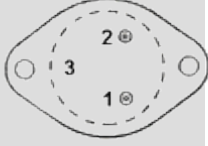
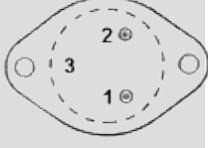
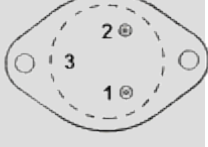
<a href="#">TIP575C</a>	BUX 15, BUX 45, TIP 54, 2SC3041	=TIP 575, 500/400V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP57A</a>	BUW 12(A), BUV 47(A), 2SC2536	=TIP 55A, 450/350V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP58A</a>	BUW 12(A), BUV 47(A), 2SC2536	=TIP 55A, 500/400V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP59</a>	BUW 11(A), BUW 131(A), 2SC3152...53	-/600V, 2,5A Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP60</a>	BUW 11(A), BUW 131(A), 2SC3152...53	-/600V, 2,5A Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP600</a>	BDV 65, BDW 83A, BDX 85A, BDX 87A	60V, 10A, 100W, B>1000 Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP601</a>	BDV 65A, BDW 83B, BDX 85B, BDX 87B	=TIP 600, 80V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP602</a>	BDV 65B, BDW 83C, BDX 85C, BDX 87C	=TIP 600, 100V Chaveamento / potência		1 → E 2 → B 3 → C 4 →

<a href="#">TIP605</a>	Darlington PNP Silício + Diodo	BDV 64, BDW 84A, BDX 86A, BDX 88A	60V, 10A, 100W, B>1000  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP606</a>	Darlington PNP Silício + Diodo	BDV 64A, BDW 84B, BDX 86B, BDX 88B	=TIP 605, 80V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP607</a>	Darlington PNP Silício + Diodo	BDV 64B, BDW 84C, BDX 86C, BDX 88C	=TIP 605, 100V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP61</a>	NPN Silício	BD 239, BD 241, BD 533, BD 933	40V, 0,5A, 15W(Tc=100°), >3MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP61A</a>	NPN Silício	BD 239A, BD 241A, BD 535, BD 935	=TIP 61, 60V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP61B</a>	NPN Silício	BD 239B, BD 241B, BD 537, BD 937	=TIP 61, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">TIP61C</a>	NPN Silício	BD 239C, BD 241C, BD 937, 2SD712	=TIP 61, 80V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP62</a>	PNP Silício	BD 240, BD 242, BD 534, BD 934	40V, 0,5A, 15W(Tc=100°), >3MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

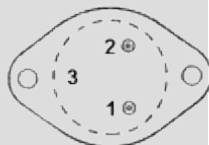
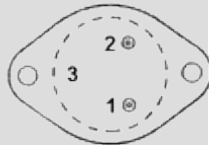
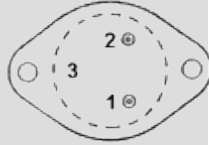
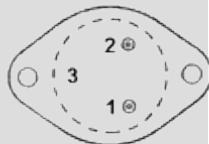
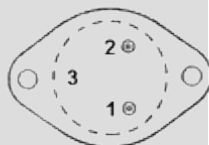
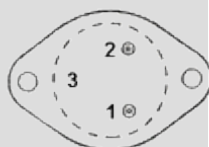
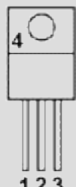
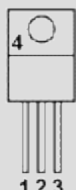
<a href="#">TIP620</a>	Darlington NPN Silício + Diodo	BDX 63, BDX 85A, TIP 140, 2SD1170	60V, 5A, 65W, B>1000  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP621</a>	Darlington NPN Silício + Diodo	BDX 63A, BDX 85B, TIP 141, 2SD1170	=TIP 620, 80V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP622</a>	Darlington NPN Silício + Diodo	BDX 63B, BDX 85C, TIP 142, 2SD1170	=TIP 620, 100V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP625</a>	Darlington PNP Silício + Diodo	BDX 62, BDX 86A, TIP 145, 2SB897	60V, 5A, 65W, B>1000  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP626</a>	Darlington PNP Silício + Diodo	BDX 62A, BDX 86B, TIP 146, 2SB897	=TIP 625, 80V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP627</a>	Darlington PNP Silício + Diodo	BDX 62B, BDX 86C, TIP 147, 2SB897	=TIP 625, 100V  Audio / chaveamento / estágios de potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP62A</a>	PNP Silício	BD 240A, BD 242A, BD 536, BD 936	=TIP 62, 60V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

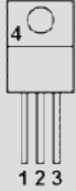
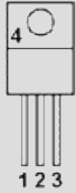
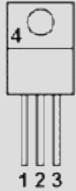
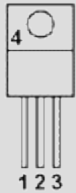
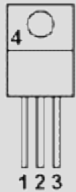
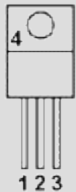
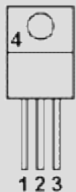
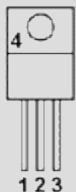
<a href="#">TIP62B</a>	BD 240B, BD 242B, BD 538, BD 938	=TIP 62, 80V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP62C</a>	BD 240C, BD 242C, BD 938, 2SB682	=TIP 62, 100V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP63</a>	BUW 40(A...B), BUX 84...85, 2SC1810	350/300V, 0,5A, 20W, >15MHz Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP64</a>	BUW 40(A...B), BUX 84...85, 2SC1810	=TIP 63, 400/350V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP640</a>	BDX 67, BDX 87A, 2N6057, 2N6282	60V, 10A, 175W, B>1000 Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP641</a>	BDX 67A, BDX 87B, 2N6058, 2N6283	=TIP 640, 80V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP642</a>	BDX 67B, BDX 87C, 2N6059, 2N6284	=TIP 640, 100V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP645</a>	BDX 66, BDX 88A, 2N6050, 2N6285	60V, 10A, 175W, B>1000 Chaveamento / potência		1 → E 2 → B 3 → C 4 →

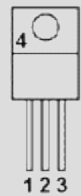
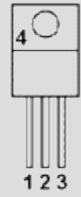
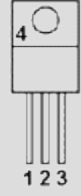
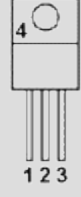
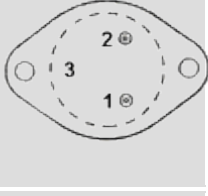
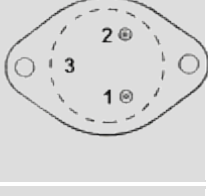
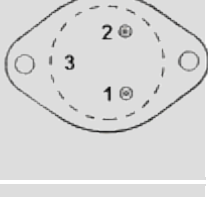
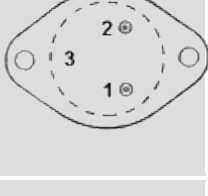
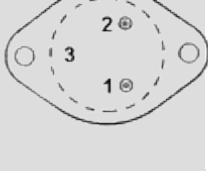


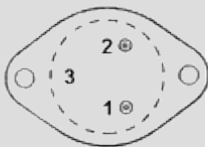
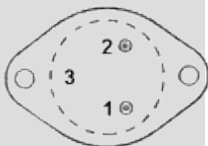
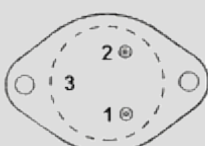
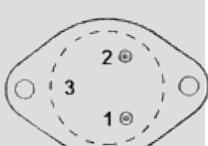
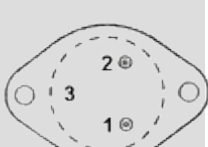
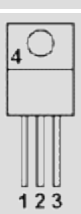
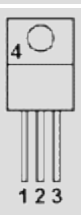
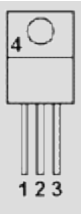
Diodo				
<a href="#">TIP646</a>	BDX 66A, BDX 88B, 2N6051, 2N6286	=TIP 645, 80V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP647</a>	BDX 66B, BDX 88C, 2N6052, 2N6287	=TIP 645, 100V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP65</a>	BUW 11(A), 2SC3088, 2SC3151, 2SC3533	-/600V, 1,5A, 40W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIP66</a>	BUW 11(A), 2SC3088, 2SC3151, 2SC3533	-/600V, 1,5A, 40W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP660</a>	BU 920...922, BUW 28...29, BUW 81(A)	320/320V, 10A, 80W, B>500 Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP661</a>	BU 920...922, BUW 28...29, BUW 81(A)	=TIP 660, 350/350V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP662</a>	BU 920...922, BUW 29, BUW 81(A)	=TIP 660, 380/380V Chaveamento / potência		1 → E 2 → B 3 → C 4 →

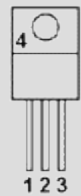









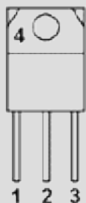
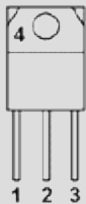

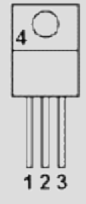
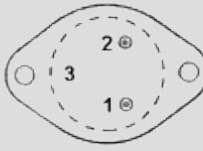
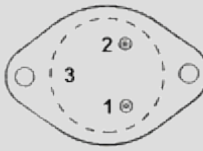
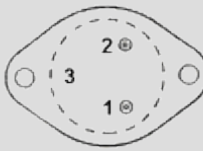
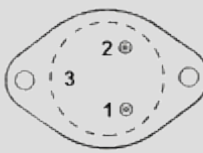
<a href="#">TIP663</a>	Darlington NPN Silicio + Diodo	BUT 13, MJ 10000...01, MJ 10004...05	400/300V, 20A, 150W(Tc=100°)  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP664</a>	Darlington NPN Silicio + Diodo	BUT 13, MJ 10000...01, MJ 10004...05	=TIP 663, 450/350V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP665</a>	Darlington NPN Silicio + Diodo	BUT 13, MJ 10001, MJ 10005, MJ 10008	=TIP 663, 500/400V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP666</a>	Darlington NPN Silicio	BUT 13, MJ 10001, MJ 10005, MJ 10008	400/300V, 10A, 150W(Tc=100°)  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP667</a>	Darlington NPN Silicio	BUT 13, MJ 10001, MJ 10005, MJ 10008	=TIP 666, 450/350V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIP668</a>	Darlington NPN Silicio	BUT 13, MJ 10001, MJ 10005, MJ 10008	=TIP 666, 550/450V  Chaveamento / potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">TIP73</a>	NPN Silicio	BD 743, BD 907	50V, 15A, 80W, 5MHz  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP73A</a>	NPN Silicio	BD 743A, BD 909	=TIP 73, 70V  Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C

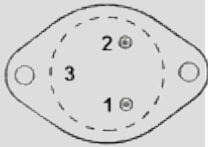
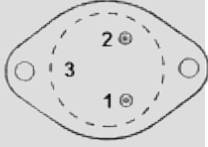
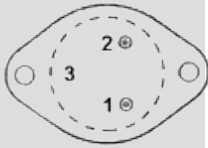
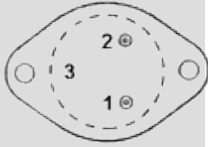
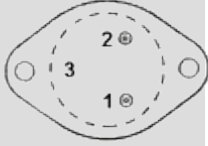
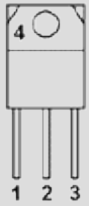
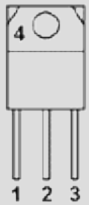
<a href="#">TIP73B</a>	BD 743B, BD 911	=TIP 73, 90V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP73C</a>	BD 743C	=TIP 73, 110V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP74</a>	BD 744, BD 908	50V, 15A, 80W, 5MHz Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP74A</a>	BD 744A, BD 910	=TIP 74, 70V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP74B</a>	BD 744B, BD 912	=TIP 74, 90V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP74C</a>	BD 744C	=TIP 74, 90V Audio / chaveamento / estágios de potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP75</a>	BUT 11(A), BUT 93, 2SC3038, 2SD841	350/200V, 3A, 65W, >10MHz Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP75A</a>	BUT 11(A), BUT 93, 2SC3038, 2SD841	=TIP 75, 400/250V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout

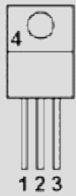
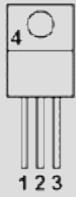
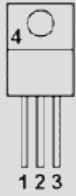
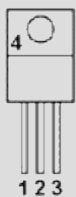
<a href="#">TIP75B</a>	BUT 11(A), BUT 93, 2SC3038, 2SD841	=TIP 75, 450/300V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIP75C</a>	BUT 11(A), BUT 93, 2SC3038, 2SD841	=TIP 75, 500/400V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL13004</a>	BUT11(A), BUT18(A), BUT46(A), BUV46(A)	700/300V, 5A, 50W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL13005</a>	BUT11(A), BUT18(A), BUT46(A), BUV46(A)	=TIPL 13004, 800/400V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL751</a>	BUS 11(A), BUW 11(A), BUX 83, 2SC3343	850/400V, 4A, 120W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL751A</a>	BUS 11A, BUW 11A, BUX 83, 2SC3343	=TIPL 751, 1000/450V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL752</a>	BUS 11(A), BUW 11(A), BUX 83, 2SC3343	850/400V, 6A, 150W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL752A</a>	BUS 11A, BUW 11A, BUX 83, 2SC3343	=TIPL 752, 1000/450V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL753</a>	BUS 12(A), BUW 12(A), BUX 81, 2SC3461	850/400V, 8A, 150W Chaveamento / potência		1 → E 2 → B 3 → C 4 →

<a href="#">TIPL753A</a>	BUS 12A, BUW 12A, BUX 81, 2SC3461	=TIPL 753, 1000/450V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIPL755</a>	BUS 12(A), BUW 12(A), BUX 81, 2SC3461	850/400V, 10A, 180W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL755A</a>	BUS 12A, BUW 12A, BUX 81, 2SC3461	=TIPL 755, 1000/450V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL757</a>	BUS13(A), BUS97(A), BUW13(A), BUX48(A)	850/400V, 15W, 200W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL757A</a>	BUS 13A, BUS 97A, BUW 13A, BUX 48A	=TIPL 757, 1000/450V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL760</a>	BUT11(A), BUT18(A), BUT46(A), BUV46(A)	850/400V, 4A, 75W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL760A</a>	BUT 11A, BUT 18A, BUT 46A, BUV 46A	=TIPL 760, 1000/400V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL760B</a>	MJE 8502...03, 2SC3050	=TIPL 760, 1100/500V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C

<a href="#">TIPL760C</a>	MJE 8502...03, 2SC3050	=TIPL 760, 1200/550V Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL761</a>	BUW11(A), BUV82...83, BUW132(A), 2SC3535	=TIPL 760, 100W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL761A</a>	BUW 11A, BUV 83, BUW 132A, 2SC3535	=TIPL 760A, 100W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIPL761B</a>	BUV 89, 2SC3466, 2SC3642	=TIPL 760B, 100W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL761C</a>	BUV 89, 2SC3466, 2SC3642	=TIPL 760C, 100W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL762</a>	BUW11(A), BUV82...83, BUW132(A), 2SC3535	=TIPL 752, 120W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL762A</a>	BUW 11A, BUV 83, BUW 132A, 2SC3535	=TIPL 752A, 120W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL763</a>	BUW11(A), BUV82...83, BUW132(A), 2SC3535	=TIPL 753, 120W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C



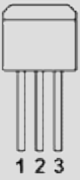
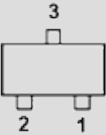

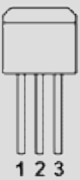


<a href="#">TIPL763A</a>	BUW 11A, BUV 93, BUW 132A, 2SC3535	=TIPL 753A, 120W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL765</a>	BUW12(A), BUW13(A), BUV47(A), BUV48(A)	=TIPL 755, 125W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL765A</a>	BUW 12A, BUW 13A, BUV 47A, BUV 48A	=TIPL 755A, 125W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL770</a>	BUV 36(A), BUX 84...85, 2SC3531	850/400V, 2,5A, 50W Chaveamento / potência		1 → B 2 → C 3 → E 4 → C
<a href="#">TIPL773</a>	-	950/600V, 20A, 180W Chaveamento / potência		1 → E 2 → B 3 → C 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">TIPL773A</a>	-	=TIPL 773, 1050/700V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL773B</a>	-	=TIPL 773, 1150/800V Chaveamento / potência		1 → E 2 → B 3 → C 4 →
<a href="#">TIPL774</a>	BUT 13, MJ 10008...10009	550/450V, 20A, 150W Chaveamento / potência		1 → E 2 → B 3 → C 4 →



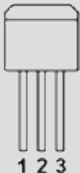

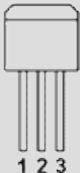

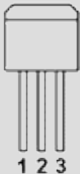

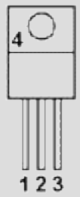
Diodo				
<a href="#">TIPL775</a>		150/120V, 10A, 100W		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
<a href="#">TIPL775A</a>		=TIPL 775, 200/150V		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
<a href="#">TIPL777</a>		950/600V, 20A, 180W		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício	-	Chaveamento / potência		
<a href="#">TIPL777A</a>		=TIPL 777, 1050/700V		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício	-	Chaveamento / potência		
<a href="#">TIPL777B</a>		=TIPL 777, 1150/800V		1 → E 2 → B 3 → C 4 →
Darlington NPN Silício	-	Chaveamento / potência		
<a href="#">TIPL785</a>		=TIPL 775, 80W		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
<a href="#">TIPL785A</a>		=TIPL 775A, 80W		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout


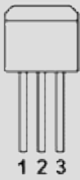

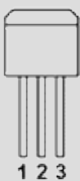




<a href="#">TIPL790</a>		=TIPL 775, 70W		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
<a href="#">TIPL790A</a>		=TIPL 775A, 70W		1 → B 2 → C 3 → E 4 → C
Darlington NPN Silício + Diodo	-	Chaveamento / potência		
<a href="#">TIPL791</a>	BUT11(A), BUT18(A), BUT46(A), BUV46(A)	=TIPL 751, 75W		1 → B 2 → C 3 → E 4 → C
NPN Silício		Chaveamento / potência		
<a href="#">TIPL791A</a>	BUT 11A, BUT 18A, BUT 46A, BUV 46A	=TIPL 751A, 75W		1 → B 2 → C 3 → E 4 → C
NPN Silício		Chaveamento / potência		

REFERÊN CIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍST ICAS	BOX/CAIX A	PINOS/PIN OUT
<a href="#">VN</a>  66	=RN 4612	=RN 4612  SMD		Sem Pinout
<a href="#">VN</a>  Diodo Zener	=P6 SMB-170C	=P6 SMB-170C  Estabilizador de tensão (5mm)		1 → 2 → 3 → 4 →
<a href="#">VN</a>  Diodo Zener	=SM 4T...	=SM 4T 10C  Estabilizador de tensão (6X4mm)		1 → A 2 → K 3 → 4 →

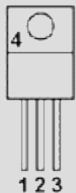







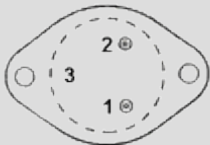
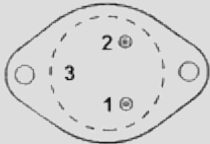


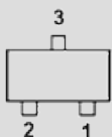
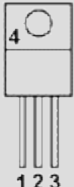
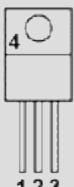
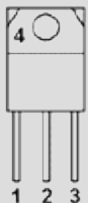
<a href="#">VN0300B</a>		=VN 0300L, 1,51A, 5W		1 → Sour
MOS FET	BST 95			2 → Gate
Canal N		Uso diverso		3 → Drain
				4 →
<a href="#">VN0300L</a>				1 → Drain
MOS FET	BST 70, BSS 296, 2SK1727,	30V, 0,64A, 0,8W, <3,3Ohm		2 → Gate
Canal N	2SK1729	Uso diverso		3 → Sour
				4 →
<a href="#">VN0300M</a>				1 → Drain
MOS FET	-	=VN 0300L, 0,67A, 1W		2 → Gate
Canal N		Uso diverso		3 → Sour
				4 →
<a href="#">VN0605T</a>				1 → Sour
MOS FET	BSS 145, BST 82	60V, 0,18A, <5Ohm,		2 → Gate
Canal N		<20/20ns		3 → Drain
		SMD		4 →
<a href="#">VN0606L</a>				1 → Drain
MOS FET	BSS 296, 2SK940...941,	60V, 0,33A, 0,8W, <3Ohm		2 → Gate
Canal N	2SK1727	Uso diverso		3 → Sour
				4 →
<a href="#">VN0606M</a>				1 → Drain
MOS FET	-	=VN 0606L, 0,36A, 1W		2 → Gate
Canal N		Uso diverso		3 → Sour
				4 →
<a href="#">VN0610L</a>				1 → Drain
MOS FET	2SK1336...1337	=VN 0610LL		2 → Gate
Canal N		Uso diverso		3 → Sour
				4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">VN0610LL</a>				1 → Drain
MOS FET	BS 170, BST 72	60V, 0,19A, 0,4W, <10/10ns		2 → Gate
Canal N		Uso diverso		3 → Sour
				4 →

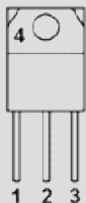
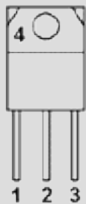
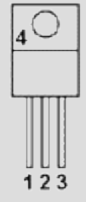
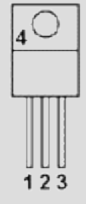
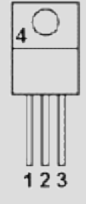
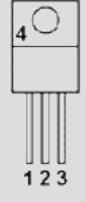
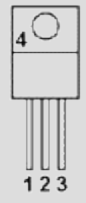
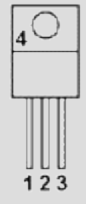
<a href="#">VN0610LL</a>	BS 170, BST 72, 2SK1336...1337	60V, 0,19A, 0,4W, <5Ohm, <10/10ns  Uso diverso		1 → Drain 2 → Gate 3 → Source 4 →
<a href="#">VN0808L</a>	BSS 296, 2SK940...941, 2SK1729	80V, 0,3A, 0,8W, <4Ohm(1A)  Uso diverso		1 → Drain 2 → Gate 3 → Source 4 →
<a href="#">VN0808M</a>	-	=VN 0808L, 0,33A, 1W  Uso diverso		1 → Drain 2 → Gate 3 → Source 4 →
<a href="#">VN10KE</a>	BS 170, BSS 91, BST 72, 2SK1336	60V, 0,17A, 0,3W, <5Ohm, <10/10ns  Uso diverso		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">VN10KM</a>	-	=VN 10KE, 0,31A, 1W  Uso diverso		1 → Drain 2 → Gate 3 → Source 4 →
<a href="#">VN10LE</a>	BSS 296, BST 70, BST 90, 2SK1484	60V, 0,38A, 0,3W, <5Ohm, <10/10ns  Uso diverso		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">VN10LM</a>	-	=VN 10KM, 0,32A, 1W  Uso diverso		1 → Drain 2 → Gate 3 → Source 4 →
<a href="#">VN1206B</a>	-	=VN 1206L, 0,22A, 5W  Uso diverso		1 → Source 2 → Gate 3 → Drain 4 →
<a href="#">VN1206D</a>	-	=VN 1206L, 0,33A, 20W  Uso diverso		1 → 2 → 3 → 4 →

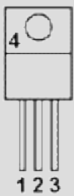
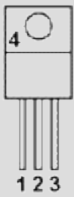
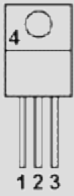
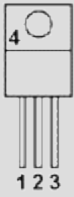
REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">VN1206L</a> MOS FET Canal N	BSS 88...89, BSN 254	120V, 0,23A, 0,8W, <60hm  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN1206M</a> MOS FET Canal N	-	=VN 1206L, 0,26A, 1W  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN1210L</a> MOS FET Canal N	-	=VN 1210M, 0,18A, 0,8W  Uso diverso		1 → 2 → 3 → 4 →
<a href="#">VN1210M</a> MOS FET Canal N	-	120V, 0,2A, 1W, <100hm  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN1706L</a> MOS FET Canal N	BSS 88...89, BSN 254	170V, 0,2A, 0,35W, <60hm  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN2010L</a> MOS FET Canal N	BSS 88...89, BSN 254	200V, 0,19A, 0,8W, <100hm  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN2222L</a> MOS FET Canal N	2SK1336...133 7	=VN 2222LL  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN2222LL</a> MOS FET Canal N	BS 170, BST 72, 2SK1336...133 7	60V, 0,15A, 0,4W, 7,50hm, <10/10ns  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →

<a href="#">VN2222LM</a>		=VN 2222LL, 0,26A, 1W		1 → Drain 2 → Gate 3 → Sourc 4 →
MOS FET Canal N	-	Uso diverso		
<a href="#">VN2406B</a>		=VN 2406L, 0,63A, 6,25W		1 → Sourc 2 → Gate 3 → Drain 4 →
MOS FET Canal N	-	Uso diverso		








REFERÊNCIA	EQUIVALEN TES	APLICAÇÃO/CARACTERÍS TICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">VN2406D</a>	-	=VN 2406L, 1,12A, 20W  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">VN2406L</a>	BSN 254, BSS 88...89	240V, 0,21A, <60hm(0,5A)  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN2406M</a>	-	=VN 2406L  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN2410L</a>	BSN 254, BSS 88...89	240V, 0,15A, <100hm(0,5A)  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN2410M</a>	-	=VN 2410L  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN3515L</a>	-	350V, 0,15A, <150hm(0,1A)  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
MOS FET Canal N				


<a href="#">VN4000A</a>	BUZ 210...211, BUZ MOS FET Canal N	330...331, 2SK298	400V, 8A, 100W, 125/125ns  Potência		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">VN4001A</a>	BUZ 210...211, BUZ MOS FET Canal N	330...331, 2SK298	400V, 8A, 100W, 125/125ns  Potência		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">VN4012L</a>	MOS FET Canal N	-	400V, 0,16A, <12Ohm(0,1A)  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
<a href="#">VN50300L</a>	MOS FET Canal N	BSS 125	500V, 33mA, 0,8W, <300Ohm(10mA)  Uso diverso		1 → Drain 2 → Gate 3 → Sourc 4 →
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout	
<a href="#">VN50300T</a>	MOS FET Canal N	-	=VN 50300L, SMD  SMD		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">VN66AFD</a>	MOS FET Canal N	-	60V, 1,46A, 15W, <6Ohm(1A)  Uso diverso		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">VN88AFD</a>	MOS FET Canal N	-	80V, 1,29A, 15W, <4Ohm(1A)  Uso diverso		1 → Sourc 2 → Gate 3 → Drain 4 →
<a href="#">VNH100N04</a>	MOS FET Canal N	-	42V, 100A, <12mOhm  Uso diverso		1 → Input 2 → Drain 3 → Sourc 4 →

<a href="#">VNH50N04</a>	-	40V, 50A, <12mOhm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNH70N07</a>	-	70V, 70A, <15mOhm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNP10N06</a>	-	=VND 10N06		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNP10N07</a>	-	70V, 10A, <0,1Ohm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNP14N04</a>	-	42V, 14A, <0,07Ohm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNP20N07</a>	-	70V, 20A, <0,05Ohm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">VNP28N04</a>	-	42V, 28A, <35mOhm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNP35N07</a>	-	70V, 35A, <28mOhm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		








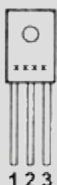
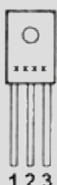
<a href="#">VNP35N07FI</a>	-	=VNP 35N07		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNP49N04</a>	-	42V, 49A, <0,02Ohm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNP5N07</a>	-	70V, 5A, <0,2Ohm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		
<a href="#">VNP7N04</a>	-	42V, 7A, <0,14Ohm		1 → Input 2 → Drain 3 → Sourc 4 →
MOS FET Canal N		Uso diverso		





REFERÊNCIA	EQUIVALENTE S	APLICAÇÃO/CARACTERÍSTICA S	BOX/CAIXA	PINOS/PINOUT
<a href="#">STK12N05L</a>	BUK 552-50, 2SK971, 2SK1301, 2SK1559	50V, 12A, 50W, <0,15Ohm(6A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal N				
<a href="#">STK12N06L</a>	BUK 552-60, 2SK971, 2SK1301, 2SK1559	=STK 12N05, 60V  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal N				
<a href="#">STK14N05</a>	BUK 552-50, 2SK971, 2SK1416, 2SK1559	50V, 14A, 50W, <0,12Ohm(7A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
MOS FET Canal N				

<a href="#">STK14N06</a>	BUK 552-60, 2SK888, MOS FET Canal N 2SK1301, 2SK1559	=STK 14N05, 60V  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK14N10</a>	2SK888, 2SK919, MOS FET Canal N 2SK1301, 2SK1559	100V, 14A, 65W, <0,14Ohm(7A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK16N10L</a>	2SK1301, 2SK1559, MOS FET Canal N 2SK1561	100V, 16A, 65W, <0,12Ohm(8A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK17N10</a>	BUZ 21, IRF 540, IRF 542, MOS FET Canal N 2SK1428	100V, 17A, 65W, <0,11Ohm(8,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK18N05</a>	BUZ 10, IRF 540...543, MOS FET Canal N 2SK674, 2SK1417	50V, 18A, 60W, <85mOhm(9A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK18N05L..06L</a>	2SK972, 2SK1115, MOS FET Canal N 2SK1287, 2SK1910	=STK 18N05..06  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK18N06</a>	BUZ 21, IRF 540...543, MOS FET Canal N 2SK674, 2SK1417	=STK 18N05, 60V  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

REFERÊNCIA	EQUIVALENTES	APLICAÇÃO/CARACTERÍSTICAS	BOX/CAIXA	PINOS/PINOUT
<a href="#">STK22N05</a>	BUZ 10, IRF 540...543, MOS FET Canal N 2SK674, 2SK1417	50V, 22A, 65W, <65mOhm(11A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain



<a href="#">STK22N06</a>	BUZ 21, IRF 540...543, 2SK674, 2SK1417	=STK 22N05, 60V  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK23N05L</a>	2SK972, 2SK1115, 2SK1287, 2SK1910	50V, 23A, 65W, <55mOhm  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK23N06L</a>	2SK972, 2SK1115, 2SK1287, 2SK1910	=STK 23N05L, 60V  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK2N50</a>	BUZ 40, BUZ 74, IRF 820...821, 2SK892	500V, 2A, 50W, <6Ohm(1A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK2N60</a>	BUZ 80, 2SK858, 2SK1323...24, 2SK1922	600V, 1,7A, 50W, <8Ohm(1A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK2N80</a>	BUZ 80, 2SK1199, 2SK1323, 2SK1338	800V, 2,1A, 70W, <7Ohm(1A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK3055E</a>	MTP 3055V	60V, 12A, 50W, <0,15Ohm(6A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK3N50</a>	2SK1154, 2SK1244, 2SK1494	500V, 2,7A, 70W, <3,8Ohm(1,5A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain
<a href="#">STK4N30</a>	BUZ 41, IRF 830, 2SK1246, 2SK1751	300V, 4,2A, 60W, <1,4Ohm(2A)  Uso diverso		1 → Gate 2 → Drain 3 → Sourc 4 → Drain

Referência	Equivalentes	Aplicação/Características	Box/Caixa	Pinos/Pinout
<a href="#">STK4N30L</a>  MOS FET Canal N	-	=STK 4N30, <1,4Ohm(2,5A)  Uso diverso		<b>1 → Gate</b> <b>2 → Drain</b> <b>3 → Sourc</b> <b>4 → Drain</b>
<a href="#">STK4N40</a>  MOS FET Canal N	BUZ 41, IRF 830, 2SK1246, 2SK1751	400V, 3,7A, 60W, <2,2Ohm(2A)  Uso diverso		<b>1 → Gate</b> <b>2 → Drain</b> <b>3 → Sourc</b> <b>4 → Drain</b>
<a href="#">STK6N20</a>  MOS FET Canal N	BUZ 73, 2SK741, 2SK1319, 2SK1667	200V, 6A, 55W, <0,7Ohm(3A)  Uso diverso		<b>1 → Gate</b> <b>2 → Drain</b> <b>3 → Sourc</b> <b>4 → Drain</b>
<a href="#">STK9N10</a>  MOS FET Canal N	BUZ 20, BUZ 72, 2SK740, 2SK1427	100V, 9A, 50W, <0,3Ohm(4,5A)  Chaveamento / potência		<b>1 → Gate</b> <b>2 → Drain</b> <b>3 → Sourc</b> <b>4 → Drain</b>