

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2N3016		2N5339	2N3667		BDW51C
2N3021		BDW52C	2N3713		BDW51C
2N3022		BDW52C	2N3715		BDW51C
2N3023		BDW52C	2N3716		BDW51C
2N3024		BDW52C	2N3719		BSS44
2N3025		BDW52C	2N3720		BSS44
2N3026		BDW52C	2N3771	2N3771	
2N3055	2N3055		2N3772	2N3772	
2N3076		BUX98A	2N3789		BDW52C
2N3171		BDW52C	2N3790		BDW52C
2N3172		BDW52C	2N3791		BDW52C
2N3173		BDW52C	2N3792		BDW52C
2N3174		TIP2955	2N3863		BDW51C
2N3183		BDW52C	2N3864		BDW51C
2N3184		BDW52C	2N3865		BUV50
2N3185		BDW52C	2N3868		BSS44
2N3186		TIP2955	2N3902		BUX48A
2N3195		BDW52C	2N3996		2N5339
2N3196		BDW52C	2N3997		2N5339
2N3198		MJ2955	2N3999		2N5339
2N3202		BSS44	2N4000		2N5339
2N3203		BSS44	2N4001		2N5339
2N3232		BDW51C	2N4002		BUV20
2N3233		BDW51C	2N4111		BDW51C
2N3235		2N3055	2N4113		BDW51C
2N3236		BDW51C	2N4115		2N5339
2N3238		BDW51C	2N4116		2N5339
2N3239		BDW51C	2N4300		2N5339
2N3240		BUX10	2N4301		2N5339
2N3419		2N5339	2N4305		2N5339
2N3420		2N5339	2N4307		2N5339
2N3421		2N5339	2N4309		2N5339
2N3439	2N3439		2N4311		2N5339
2N3440	2N3440		2N4314		BSS44
2N3445		BDW51C	2N4398		MJ4502
2N3446		BDW51C	2N4399		2N5884
2N3447		BDW51C	2N4877		2N5339
2N3448		BDW51C	2N4895		BFX34

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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2N4897		BFX34	2N5157		BUX48A
2N4901		MJ2955	2N5190		2N5191
2N4902		MJ2955	2N5191	2N5191	
2N4903		MJ2955	2N5192	2N5192	
2N4904		MJ2955	2N5193		2N5195
2N4905		MJ2955	2N5194		2N5195
2N4906		MJ2955	2N5195	2N5195	
2N4907		BDW52C	2N5240		BUX48A
2N4908		BDW52C	2N5241		BUX48A
2N4909		BDW52C	2N5264		BUX98A
2N4913		BDW51C	2N5284		2N5339
2N4914		BDW51C	2N5285		2N5339
2N4915		BDW51C	2N5293		TIP31C
2N4918		BD238	2N5294		TIP31C
2N4919		BD238	2N5295		TIP31C
2N4920		BD238	2N5297		TIP31C
2N4921		BD235	2N5298		TIP31C
2N4922		BD235	2N5298		TIP31C
2N4923		BD237	2N5301		2N5886
2N4998		2N5339	2N5302		2N5886
2N5000		2N5339	2N5303		2N5886
2N5002		2N5339	2N5333		BSS44
2N5004		2N5339	2N5334		2N5339
2N5034		2N3055	2N5336		2N5339
2N5035		2N3055	2N5337		2N5339
2N5036		2N3055	2N5338		2N5339
2N5037		2N3055	2N5339	2N5339	
2N5038	2N5038		2N5346		2N5339
2N5039		2N5038	2N5347		2N5339
2N5068		BDW51C	2N5348		2N5339
2N5069		BDW51C	2N5349		2N5339
2N5083		2N5339	2N5386		2N5038
2N5085		2N5339	2N5387		2N6547
2N5148		2N5339	2N5388		2N6547
2N5150		2N5339	2N5389		2N6547
2N5152		2N5339	2N5415	2N5415	
2N5153		BSS44	2N5416	2N5416	
2N5154		BFX34	2N5466		BUX48A

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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2N5467		BUX48A	2N5782		BSS44
2N5477		2N5339	2N5783		BSS44
2N5478		2N5339	2N5784		2N5339
2N5479		2N5339	2N5785		2N5339
2N5480		2N5339	2N5867		BDW52C
2N5490		MJE3055T	2N5868		BDW52C
2N5491		MJE3055T	2N5869		BDW51C
2N5492		BD707	2N5870		BDW51C
2N5493		BD243B	2N5871		BDW52C
2N5494		BD707	2N5872		BDW52C
2N5495		MJE3055T	2N5873		BDW51C
2N5496		BD709	2N5874		BDW51C
2N5497		BD243B	2N5875		BDW52C
2N5559		BUV50	2N5876		BDW52C
2N5614		BDW51C	2N5879		BDW52C
2N5616		BDW51C	2N5880		BDW52C
2N5618		BDW51C	2N5881		BDW51C
2N5629		MJ802	2N5882		BDW51C
2N5632		BDW51C	2N5883		2N5884
2N5633		BUV50	2N5884	2N5884	
2N5634		BUV50	2N5885		2N5886
2N5655		MJE340	2N5886	2N5886	
2N5656		MJE3440	2N5929		BUX10
2N5657		MJE3440	2N5930		BUX10
2N5671		BUV50	2N5932		BUX10
2N5672		BUV50	2N5933		BUX10
2N5679		2N5680	2N5936		BUX10
2N5680	2N5680		2N5970		BDW51C
2N5681	2N5681		2N5971		BDW51C
2N5682	2N5682		2N5973		2N5886
2N5729		2N5339	2N5974		MJE2955T
2N5734		BUX10	2N5975		MJE2955T
2N5738		BDW52C	2N5976		MJE2955T
2N5740		BDW52C	2N5977		MJE3055T
2N5743		2N5884	2N5978		MJE3055T
2N5744		MJ4502	2N5979		MJE3055T
2N5758		BDW51C	2N5980		MJE2955T
2N5781		BSS44	2N5981		MJE2955T

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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2N5982		2N6490	2N6106		2N6107
2N5983		MJE3055T	2N6107	2N6107	
2N5984		MJE3055T	2N6108		2N6107
2N5985		TIP33C	2N6109		2N6107
2N5986		2N6490	2N6110		2N6107
2N5987		2N6490	2N6111	2N6111	
2N5990		TIP33C	2N6121		BD243B
2N5991		TIP33C	2N6122		TIP31C
2N6021		TIP32C	2N6123		BD243B
2N6022		TIP32C	2N6124		BD244B
2N6023		TIP32B	2N6125		TIP32B
2N6024		TIP32B	2N6126		BD244B
2N6025		TIP32B	2N6128		BUX10
2N6026		TIP32B	2N6129		TIP41B
2N6032		BUV20	2N6130		TIP41B
2N6033		BUV21	2N6131		TIP41B
2N6034		2N6036	2N6132		TIP42C
2N6035		2N6036	2N6133		TIP42C
2N6036	2N6036		2N6134		TIP42C
2N6037		BD681	2N6177		MJE340
2N6038		BD681	2N6226		BDW52C
2N6039		BD681	2N6227		MJ2955
2N6042		TIP107	2N6228		MJ2955
2N6045		TIP102	2N6229		BDW52C
2N6050	2N6050		2N6242		BUX80
2N6051		BDX88C	2N6243		BUX48
2N6052		BDX88C	2N6244		BUX98A
2N6053		2N6050	2N6245		BUX48
2N6055		MJ3001	2N6246		BDW52C
2N6057		2N6059	2N6247		BDW52C
2N6058		2N6059	2N6248		MJ2955
2N6059	2N6059		2N6249		BUV21
2N6098		2N6487	2N6250		BUV21
2N6099		2N6487	2N6251		BUX48
2N6100		2N6487	2N6257		2N5886
2N6101		2N6488	2N6258		2N5886
2N6102		2N6488	2N6270		BUX10
2N6103		2N6487	2N6271		BUX10

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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2N6273		BUX10	2N6385		MJ3001
2N6274		BUV20	2N6386		2N6388
2N6275		BUV20	2N6387		2N6388
2N6276		BUV21	2N6388	2N6388	
2N6277		BUV21	2N6406		MJE172
2N6278		BUV20	2N6407		MJE172
2N6279		BUV20	2N6408		MJE182
2N6280		BUV20	2N6409		MJE182
2N6281		BUV21	2N6410		BD435
2N6282		2N6284	2N6411		MJE210
2N6283		2N6284	2N6412		MJE182
2N6284	2N6284		2N6413		MJE182
2N6285		2N6287	2N6414		MJE172
2N6286		2N6287	2N6415		MJE172
2N6287	2N6287		2N6469		BDW52C
2N6288		BD243B	2N6470		BDW51C
2N6289		BD243B	2N6471		BDW51C
2N6290		BD243B	2N6472		BDW51C
2N6291		BD243B	2N6473		BD711
2N6292		BD243B	2N6475		BD912
2N6293		BD243B	2N6486		2N6487
2N6306		BUX80	2N6487	2N6487	
2N6307		BUY69A	2N6488	2N6488	
2N6308		BUY69A	2N6489	2N6489	
2N6329		2N5884	2N6490	2N6490	
2N6330		2N5884	2N6491		BD912
2N6331		2N5884	2N6496		BUX10
2N6338		BUX10	2N6499		ST13005
2N6339		BUX10	2N6511		BUX80
2N6354		BUX10	2N6512		BUX80
2N6355		2N6059	2N6513		BUX80
2N6356		2N6059	2N6514		BUX80
2N6357		2N6059	2N6530		TIP102
2N6358		2N6059	2N6530		TIP102
2N6359		2N5886	2N6531		BDX53C
2N6371		2N3055	2N6532		BDX53C
2N6383		MJ3001	2N6535		TIP102
2N6384		BDX87C	2N6535		TIP102

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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2N6536	2N6547	TIP102	2SA623		BD238
2N6536		TIP102	2SA624		BD238
2N6544		BUX48A	2SA626		BDW52C
2N6545		BUX80	2SA627		BDW52C
2N6546		2N6547	2SA633		BD238
2N6547			2SA634		BD238
2N6548		MJE802	2SA635		BD238
2N6549		MJE802	2SA636		BD238
2N6551		BD237	2SA645		MJE182
2N6552		BD237	2SA646		BD238
2N6553		BD237	2SA647		BD238
2N6554		BD238	2SA656		MJ2955
2N6556		BD238	2SA657		BDW52C
2N6557		MJE340	2SA658		BDW52C
2N6558		MJE340	2SA663		BDW52C
2N6559		MJE340	2SA670		TIP32B
2N6569		BDW51C	2SA671		BD242B
2N6573		2N6547	2SA679		MJ2955
2N6574		2N6547	2SA680		BDW52C
2N6575		BUX48	2SA682		BD238
2N6576		2N6577	2SA696		MJE350
2N6577			2SA699		TIP30A
2N6594		2N6577	2SA699A		TIP30A
2N6648			2SA700		TIP30A
2N6649			2SA703		BD238
2N6666			2SA714		MJ2955
2N6667		2SA715	MJE172		
2N6668	2N6668	2SA738	MJE172		
2N6673		2SA743	BD238		
2N6675		2SA748	BD242B		
2N6676		2SA755	BD242B		
2N6677		2SA756	BDW52C		
2N6678		2SA757	MJ2955		
2N6702		2SA758	MJ2955		
2SA489		2SA768	BD242B		
2SA490		2SA769	BD242B		
2SA496		2SA770	2N6107		
2SA505		2SA771	2N6107		

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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SA775		TIP30C	2SA1329		BD912
2SA779		BD438	2SA1357		TIP42C
2SA780		BD440	2SB434		BD244B
2SA780A		BD442	2SB435		BD244B
2SA795		MJE350	2SB506		MJ2955
2SA807		BDW52C	2SB507		BD242B
2SA808		BDW52C	2SB509		BD244B
2SA814		TIP32C	2SB511		TIP32A
2SA815		TIP30C	2SB513		BD244B
2SA816		TIP30C	2SB514		TIP32A
2SA818		MJE350	2SB515		TIP32A
2SA835		MJE350	2SB518		BDW52C
2SA837		BDW52C	2SB520		MJ2955
2SA839		TIP32C	2SB521		TIP42A
2SA877		BDW52C	2SB522		TIP42A
2SA885		BD438	2SB523		2N5195
2SA886		BD438	2SB524		2N5195
2SA887		BD242B	2SB526		MJE350
2SA898		MJE350	2SB527		MJE350
2SA899		MJE350	2SB528		MJE350
2SA900		MJE210	2SB529		2N5195
2SA907		MJ2955	2SB531		BDW52C
2SA922		BD238	2SB532		BDW52C
2SA939		MJE350	2SB536		MJE350
2SA963		MJE172	2SB537		TIP32C
2SA966		TIP32A	2SB548		BD238
2SA980		BDW52C	2SB549		BD238
2SA1008		TIP32C	2SB553		TIP42C
2SA1010		TIP42C	2SB558		BDW52C
2SA1012		TIP42A	2SB559		BD238
2SA1020		TIP32A	2SB565		BD708
2SA1045		BDX88C	2SB566		BD708
2SA1046		BDX88C	2SB566A		BD708
2SA1063		MJ2955	2SB569		BD678
2SA1069		TIP42C	2SB570		BD678
2SA1110		MJE350	2SB571		BD680
2SA1307		TIP42C	2SB572		2N5195
2SA1326		2N6490	2SB573		2N5195

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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SB574		2N5195	2SB694		2N6287
2SB575		2N5195	2SB696		MJE5852
2SB576		2N5195	2SB697		MJE5852
2SB577		2N5195	2SB706		2N6107
2SB578		MJE2955T	2SB707		2N6107
2SB579		MJE2955T	2SB708		2N6107
2SB580		MJE2955T	2SB712		TIP107
2SB581		MJE2955T	2SB713		MJE5852
2SB585		2N6050	2SB717		MJE5852
2SB587		2N6050	2SB718		MJE5852
2SB588		BDX88C	2SB722		MJE5852
2SB589		BDX88C	2SB724		TIP32A
2SB595		BD912	2SB743		MJE172
2SB596		BD244B	2SB744		MJE172
2SB604		BD244B	2SB750		TIP115
2SB631		BD238	2SB751		BDX54B
2SB632		BD436	2SB753		BD912
2SB633		TIP42C	2SB754		TIP36B
2SB638		BDX88C	2SB772		MJE172
2SB639		BDX88C	2SB833		MJ11013
2SB648		MJE350	2SB834		TIP32A
2SB649		MJE350	2SB855		TIP32A
2SB653		MJ2955	2SB856		TIP32A
2SB654		MJ2955	2SB941		TIP32A
2SB655		MJE5852	2SB1020		TIP107
2SB668		TIP32A	2SB1024		TIP127
2SB669		TIP32B	2SC407		BUV21
2SB673		BDW94C	2SC408		BUV21
2SB674		BDW94B	2SC409		BUV21
2SB675		BDW94B	2SC410		BUV21
2SB676		TIP127	2SC411		2N6547
2SB677		TIP125	2SC412		2N6547
2SB679		TIP117	2SC431		BUX22
2SB681		MJE5852	2SC432		BUX22
2SB686		TIP36C	2SC433		BUX22
2SB689		TIP42C	2SC434		BUX22
2SB690		TIP42C	2SC495		BD237
2SB693		2N6287	2SC496		BD235



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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SC503		2N5339	2SC931		BD241A
2SC504		2N5339	2SC932		BD241A
2SC510		2N5339	2SC935		BUX80
2SC518		BDW51C	2SC936		BU208A
2SC518A		BDW51C	2SC937		BU208A
2SC520		BDW51C	2SC939		BU326A
2SC520A		BDW51C	2SC940		BU326A
2SC521A		BDW51C	2SC962		BDW51C
2SC558		BU326A	2SC999		BU208A
2SC642		BU208A	2SC1004		BU208A
2SC646		2N3055	2SC1004A		BU208A
2SC647		BDW51C	2SC1005		BU208A
2SC664		BDW51C	2SC1034		BU208A
2SC675		BUX80	2SC1060		TIP31A
2SC676		BUX80	2SC1061		TIP31A
2SC677		BUX80	2SC1078		BU208A
2SC678		BUX80	2SC1080		BDW51C
2SC681		BUX80	2SC1086		BU208A
2SC758		BUX80	2SC1088		MJE3440
2SC759		BUX80	2SC1089		MJE3440
2SC760		BUX80	2SC1096		MJE182
2SC768		2N3055	2SC1098		BD237
2SC769		BUV50	2SC1099		BU208A
2SC770		BUV21	2SC1100		BU208A
2SC771		BUV21	2SC1101		BU208A
2SC789		TIP31C	2SC1106		BU326A
2SC790		TIP31A	2SC1107		BD243B
2SC791		TIP31C	2SC1108		BD243C
2SC793		BDW51C	2SC1109		BD243B
2SC794		BDW51C	2SC1110		BD243C
2SC861		BU326A	2SC1111		BUV50
2SC862		BUX48A	2SC1114		BU326A
2SC885		BU326A	2SC1115		BUV50
2SC886		BU326A	2SC1116		BUV21
2SC887		BU326A	2SC1130		BU326A
2SC901		BU326A	2SC1131		BU326A
2SC901A		BU326A	2SC1132		BU208A
2SC902		BU326A	2SC1133		BU208A

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Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SC1140		BUX48	2SC1348		BU208A
2SC1141		BUX48	2SC1358		BU208A
2SC1142		BUY69A	2SC1367		BU208A
2SC1143		BUY69A	2SC1368		MJE182
2SC1151		BU208A	2SC1381		MJE182
2SC1153		BU208A	2SC1382		MJE182
2SC1154		BU208A	2SC1398		BD241B
2SC1155		MJE182	2SC1402		BUV50
2SC1157		BD237	2SC1403		BUV50
2SC1162		MJE182	2SC1409		TIP47
2SC1167		BU208A	2SC1410		TIP47
2SC1170		BU208A	2SC1413		BU208A
2SC1170A		BU208A	2SC1418		TIP31A
2SC1171		BU208A	2SC1419		TIP31A
2SC1172		BU208A	2SC1434		2N6547
2SC1173		TIP31A	2SC1436		BUX98A
2SC1174		BU208A	2SC1440		BUX98A
2SC1174		BU208A	2SC1441		BUX98A
2SC1184		BU208A	2SC1447		TIP47
2SC1185		BU326A	2SC1448		TIP47
2SC1212		BD235	2SC1449		MJE182
2SC1212A		BD237	2SC1454		BU326A
2SC1226		TIP31A	2SC1463		BU326A
2SC1226A		TIP31A	2SC1467		BUX80
2SC1227		BUX80	2SC1468		BUX80
2SC1228		BUX80	2SC1469		BUX80
2SC1229		BUX80	2SC1477		BUX80
2SC1230		BUX80	2SC1501		MJE3440
2SC1237		TIP31C	2SC1504		BUX80
2SC1243		MJE802	2SC1505		TIP48
2SC1292		BU326A	2SC1506		TIP48
2SC1295		BU208A	2SC1507		TIP48
2SC1308		BU208A	2SC1514		MJE3440
2SC1309		BU208A	2SC1516		BD437
2SC1316		BUX80	2SC1517		BD439
2SC1322		BUX98A	2SC1517A		BD441
2SC1325		BU208A	2SC1519		MJE340
2SC1343		BUV21	2SC1520		MJE340

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SC1521		MJE340	2SC1880		TIP112
2SC1565		MJE340	2SC1881		TIP110
2SC1576		BUX80	2SC1883		TIP122
2SC1577		BUX80	2SC1891		BU208A
2SC1578		BUY69A	2SC1892		BU208A
2SC1580		BUX48	2SC1893		BU208A
2SC1584		BUV21	2SC1894		BU208A
2SC1585		BUV21	2SC1922		BU208A
2SC1586		BUV21	2SC1929		TIP48
2SC1617		BU326A	2SC1942		BU208A
2SC1618		BDW51C	2SC1944		TIP112
2SC1619		BDW51C	2SC1945		TIP41B
2SC1625		TIP29C	2SC1983		TIP112
2SC1626		TIP29C	2SC1984		TIP112
2SC1629		MJ3001	2SC1985		TIP41B
2SC1667		BDW51C	2SC1986		TIP41C
2SC1669		TIP47	2SC2024		BD237
2SC1683		TIP47	2SC2027		BU208A
2SC1722		TIP48	2SC2068		MJE340
2SC1723		TIP48	2SC2071		MJE3440
2SC1749		MJE340	2SC2073		TIP47
2SC1768		BU931	2SC2080		MJE182
2SC1777		2N3055	2SC2127		BUV21
2SC1782		BUV50	2SC2189		BUX80
2SC1783		BUX98A	2SC2190		BUX80
2SC1784		BUV50	2SC2191		2N6547
2SC1785		BUV21	2SC2209		MJE182
2SC1786		BUV21	2SC2229		TIP47
2SC1826		TIP41B	2SC2230		TIP47
2SC1827		TIP41C	2SC2235		TIP47
2SC1829		BU931	2SC2236		TIP31A
2SC1832		BU931	2SC2238		TIP47
2SC1846		MJE182	2SC2238A		TIP47
2SC1847		MJE182	2SC2238B		TIP47
2SC1848		BD241B	2SC2244		BUX80
2SC1869		BUV50	2SC2246		2N6547
2SC1870		2N6547	2SC2248		BUX80
2SC1875		BU208A	2SC2256		BUV21

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SC2260		BUV21	2SC3257		MJE13009
2SC2261		BUV21	2SC3294		TIP41B
2SC2262		BUV21	2SC3306		MJE13009
2SC2270		2N5195	2SC3310		BUL128
2SC2298		MJE182	2SC3346		MJE13009
2SC2311		BD235	2SC3419		TIP31C
2SC2321		BUV50	2SC3420		TIP41B
2SC2322		2N3055	2SC3421		TIP47
2SC2324		BD681	2SC3657		BU508A
2SC2333		ST13005	2SC3783		BU508A
2SC2335		ST13007	2SC3795		BUL138
2SC2337		BUV50	2SC3832		BUL128
2SC2344		TIP47	2SC3868		BULT118
2SC2356		2N6547	2SC3886		BUH1015HI
2SC2371		MJE3440	2SC3886A		BUH1015HI
2SC2373		ST13007	2SC3892		THD200FI or THD215HI
2SC2397		MJE3055T	2SC3892A		THD200FI or THD215HI
2SC2402		2N6547	2SC3970A		BULT118
2SC2428		BUV21	2SC3996		BUH1215
2SC2431		2N3055	2SC3997		BUH1215
2SC2432		BDW51C	2SC4051		BUL128
2SC2433		MJ11016	2SC4053		BUL138
2SC2435		2N6059	2SC4054		BUL138
2SC2436		2N6059	2SC4055		BUL57
2SC2487		BUV50	2SC4106		BUL128
2SC2488		BUV50	2SC4107		BUL57
2SC2489		BUV50	2SC4123		BUH615D
2SC2492		BUV50	2SC4229A		BUH1215
2SC2493		BUV50	2SC4233		BUL216
2SC2500		TIP31A	2SC4235		2N6059
2SC2534		ST13003	2SC4236		2N6059
2SC2535		ST13005	2SC4242		BUL138
2SC2536		ST13005	2SC4288A		BUH1215
2SC2552		ST13005	2SC4290A		BUH1215
2SC2553		ST13007	2SC4533		BULT118
2SC2562		TIP41B	2SC4744		BUH615D
2SC2793		BU508A	2SC4747		BUH1215
2SC2914		BUX80	2SC4757		THD215HI

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SC4759		BUH1015HI	2SD81		BDW51C
2SC4762		BUH615D	2SD82		BDW51C
2SC4769		BUH615D	2SD84		BUV21
2SC4770		THD200FI or THD215HI	2SD88		BDW51C
2SC4774		BUH1015HI	2SD107		MJ3001
2SC4916		THD218DHI	2SD108		MJ3001
2SC4923		BUH1015HI	2SD110		BUV50
2SC4924		BUH1015HI	2SD111		BDW51C
2SC4927		THD200FI or THD215HI	2SD113		MJ802
2SC4977		BUL57	2SD114		2N5886
2SC5002		THD200FI or THD215HI	2SD116		BDW51C
2SC5021		BUL128	2SD119		BDW51C
2SC5022		BUH2M20AP	2SD124		BDW51C
2SC5023		BUL138	2SD124A		BDW51C
2SC5048		THD200FI or THD215HI	2SD125		BDW51C
2SC5129		THD200FI or THD215HI	2SD125A		BDW51C
2SC5144		BUH1215	2SD131		BDW51C
2SC5148		THD200FI or THD215HI	2SD133		BUX10
2SC5207		THD200FI or THD215HI	2SD151		BDW51C
2SC5250		THD200FI or THD215HI	2SD161		BUV50
2SC5251		THD200FI or THD215HI	2SD163		BDW51C
2SC5299		THD200FI or THD215HI	2SD165		BUV50
2SC5332		BUH1015	2SD166		BUV21
2SD12		BDW51C	2SD168		BDX87C
2SD15		BDW51C	2SD173		BDW51C
2SD16		BDW51C	2SD175		BDW51C
2SD18		BUV21	2SD176		BDW51C
2SD26		BDW51C	2SD177		BUV50
2SD26A		BDW51C	2SD180		BDW51C
2SD26B		BDW51C	2SD181		BUV50
2SD41		BDW51C	2SD188		BDW51C
2SD47		BDW51C	2SD189		BDW51C
2SD50		BDW51C	2SD189A		BDW51C
2SD51		BDW51C	2SD199		BU208A
2SD52		BDW51C	2SD200		BU208A
2SD68		BDW51C	2SD201		BDW51C
2SD73		BDW51C	2SD207		BDW51C
2SD80		BDW51C	2SD208		BUV50

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SD212		BDW51C	2SD317		TIP31A
2SD213		BUV50	2SD318		TIP31A
2SD214		BUV50	2SD319		BUV50
2SD217		BUV50	2SD321		BUX80
2SD218		BUV50	2SD322		BUV21
2SD231		2N5886	2SD323		BUV21
2SD232		BUV20	2SD325		TIP31A
2SD233		TIP31C	2SD330		TIP31A
2SD234		TIP31A	2SD331		TIP31A
2SD235		TIP31A	2SD335		BDW51C
2SD246		BU208A	2SD338		BDW51C
2SD247		BDW51C	2SD339		BDW51C
2SD249		2N5886	2SD340		2N3055
2SD260		BDW51C	2SD341		2N3055
2SD262		2N6547	2SD342		TIP31C
2SD265		BUX80	2SD343		TIP31C
2SD266		BUX80	2SD344		TIP31C
2SD271		ST13005	2SD345		TIP31C
2SD272		ST13005	2SD346		TIP41B
2SD273		BUX80	2SD347		TIP41B
2SD274		BUX80	2SD348		BU208A
2SD286		BUV21	2SD350		BU208A
2SD286		BUV21	2SD351		BUX80
2SD287		BUV21	2SD356		BD237
2SD288		TIP31C	2SD357		BD237
2SD289		TIP31C	2SD358		BD237
2SD293		2N6547	2SD359		2N5191
2SD294		2N6547	2SD360		2N5191
2SD295		BUX48	2SD361		2N5191
2SD296		BUX48	2SD365		TIP31A
2SD299		BU208A	2SD366		TIP31C
2SD300		BU208A	2SD366A		TIP31C
2SD301		BDX87C	2SD368		BU208A
2SD310		2N6547	2SD369		BDW51C
2SD311		2N6547	2SD371		BDW51C
2SD313		TIP31A	2SD375		BUV21
2SD314		TIP31A	2SD376		BUV21
2SD316		BDW51C	2SD377		BUX98A

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SD379		BDW51C	2SD487		2N5192
2SD380		BU208A	2SD488		BD235
2SD388		BUV21	2SD489		BD235
2SD389		TIP31A	2SD490		BD237
2SD390		TIP31A	2SD491		MJE3055T
2SD396		2N6547	2SD492		2N3055
2SD401		TIP47	2SD493		MJE3055T
2SD402		TIP47	2SD494		MJE3055T
2SD404		TIP120	2SD495		MJE3055T
2SD417		BUX80	2SD498		TIP102
2SD418		BU208A	2SD498		TIP102
2SD422		ST13005	2SD499		MJE3055T
2SD423		ST13005	2SD500		MJE3055T
2SD424		BUV50	2SD502		MJ3001
2SD425		BUV50	2SD504		2N6059
2SD426		BUV50	2SD505		2N6059
2SD428		BDW51C	2SD505		2N6059
2SD429		2N6547	2SD506		2N6059
2SD431		BUV50	2SD517		BU208A
2SD433		BUV21	2SD518		ST13005
2SD434		BUV21	2SD519		BUX80
2SD435		BUX98A	2SD522		BDW51C
2SD436		BUX98A	2SD523		MJ3001
2SD439		BD235	2SD524		MJ11014
2SD459		TIP121	2SD525		TIP41C
2SD460		TIP122	2SD526		TIP41B
2SD473		MJ11016	2SD531		TIP41C
2SD475		TIP31C	2SD539		BUX80
2SD476		BD243B	2SD544		TIP41C
2SD478		TIP47	2SD549		BD681
2SD479		BD681	2SD552		BUV21
2SD480		BD681	2SD553		TIP41B
2SD481		BD681	2SD555		BUX80
2SD482		MJE3440	2SD570		BD241B
2SD483		MJE3440	2SD574		MJ11016
2SD484		MJE3440	2SD575		BU208A
2SD485		2N5191	2SD577		BU208A
2SD486		2N5191	2SD597		BDW51C

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SD600		BD238	2SD722		TIP102
2SD603		TIP47	2SD723		TIP31C
2SD604		BU931	2SD724		ST13005
2SD605		BU931	2SD725		BU208A
2SD608		TIP47	2SD726		TIP31C
2SD610		TIP47	2SD729		2N6284
2SD612		MJE521	2SD730		MJ11016
2SD613		TIP41C	2SD733		BUV50
2SD622		ST13005	2SD752		BUV50
2SD626		BU931	2SD753		BUX98A
2SD627		BU208A	2SD757		MJE3440
2SD628		BDX87C	2SD758		MJE3440
2SD629		BDX87C	2SD759		TIP47
2SD630		2N5886	2SD760		TIP47
2SD631		2N5886	2SD761		TIP47
2SD633		BDW93C	2SD762		TIP31A
2SD634		BDW93B	2SD764		BU208A
2SD635		BDW93B	2SD765		BU208A
2SD640		BUX80	2SD768		TIP102
2SD650		BU931	2SD783		BU208A
2SD663		BU931	2SD793		MJE182
2SD665		BUV21	2SD794		MJE182
2SD668		MJE340	2SD797		2N5886
2SD668A		MJE340	2SD801		BUX80
2SD670		MJ11016	2SD802		BUX80
2SD678		TIP110	2SD803		2N6059
2SD679		TIP112	2SD811		BUX80
2SD685		BU931	2SD818		BU208A
2SD686		TIP122	2SD819		BU208A
2SD687		TIP121	2SD820		BU208A
2SD689		TIP112	2SD821		BU208A
2SD693		BU931	2SD823		BU406
2SD705		BU931	2SD836		TIP110
2SD709		BU931	2SD837		TIP120
2SD716		TIP35C	2SD839		BDX53B
2SD717		TIP33C	2SD840		BDX53B
2SD721		TIP102	2SD843		BD911
2SD721		TIP102	2SD844		TIP35C



## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
2SD867		BUV50	2SD1203		BU941Z
2SD868		BU208D	2SD1389		THD218DHI
2SD869		BU208D	2SD1398		THD277HI
2SD870		BU208D	2SD1403		THD215HI
2SD872		MJE3055T	2SD1412		BD243B
2SD878		2N3055	2SD1413		TIP110
2SD880		TIP31A	2SD1414		TIP122
2SD882		MJE182	2SD1415		TIP120
2SD897		BU208D	2SD1417		TIP102
2SD897A		BU208D	2SD1417		TIP102
2SD898		BU208D	2SD1533		BUH315D
2SD898A		BU208D	2SD1541		BUH315D
2SD898B		BU208D	2SD1545		THD277HI
2SD899		BU208D	2SD1546		THD215HI
2SD899A		BU208D	2SD1548		THD200FI or THD215HI
2SD900		BU208D	2SD1554		BUH315D
2SD900A		BU208D	2SD1555		BUH615D
2SD900B		BU208D	2SD1556		BUH515D
2SD903		BU208D	2SD1650		BUH315D
2SD904		BU208D	2SD1877		BUH315D
2SD950		BU208A	2SD1878		THD218DHI
2SD951		BU208A	2SD1882		BUH315
2SD952		BU208A	2SD1885		THD200FI or THD215HI
2SD953		BU208A	2SD1886		THD215HI
2SD956		BU208D	2SD1941		THD200FI or THD215HI
2SD957A		BU208D	2SD2039		BD681
2SD990		TIP112	2SD2115		THD218DHI
2SD993		BU208D	2SD2253		BUH615D
2SD994		BU208D	2SD2311		THD277HI
2SD1061		D44H8	2SD2331		BUH315D
2SD1062		D44H8	2SD2333		THD277HI
2SD1069		BU407D	2SD5072		BUH1015HI
2SD1131		D44H8	BD127		MJE340
2SD1132		D44H8	BD128		MJE340
2SD1163		BU406	BD130		2N3055
2SD1163A		BU406	BD131		BD135
2SD1187		TIP33C	BD132		BD136
2SD1201		BU931	BD135	BD135	

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BD135-10	BD136	BD139	BD176-10	BD179	BD234
BD135-16		BD139	BD177		BD179
BD135-6		BD135	BD177-10		BD179
BD136			BD178		BD236
BD136-10			BD140-10		
BD136-16			BD140-10		BD179
BD136-6			BD136		BD179
BD137			BD139		BD238
BD137-10			BD139		BD238
BD137-16			BD139		BDW51C
BD137-6			MJE182		BDW51C
BD138		BD138			BDW51C
BD138-10			BD138		BDW51C
BD138-16		BD138	BD435		
BD138-6		BD138	BD436		
BD139	BD139		BD437		
BD139-10		BD139	BD438		
BD139-16		BD139	BD439		
BD139-6		BD139	BD440		
BD140	BD140		BD535		
BD140-10	BD140-10		BD534		
BD140-16		BD140	BD535		
BD140-6		BD140	BD536		
BD157		MJE3440	BD537		
BD158		MJE340	BD538		
BD159		MJE340	BD707		
BD165		BD437	BD708		
BD166		BD438	BD707		
BD167		BD439	BD710		
BD168		BD440	BD909		
BD169		BD441	BD910		
BD170		BD442	BD909		
BD171		BD237	BD910		
BD172		BD238	2N6487		
BD175		BD179	2N6487		
BD175-10		BD179	2N6488		
BD175-16		BD179	2N6489		
BD176		BD234	2N6490		
			BD214-60		

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BD214-80		BD912	BD242BFI	BD242BFI	
BD220		BD537	BD242BFP	BD242BFP	
BD221		BD535	BD242C	BD242C	
BD222		BD535	BD243		BD243B
BD223		BD538	BD243A		BD243B
BD224		BD534	BD243B	BD243B	
BD225		BD536	BD243C	BD243C	
BD226		BD179	BD244		BD244B
BD227		BD234	BD244A		BD244B
BD228		BD179	BD244B	BD244B	
BD229		BD236	BD244C	BD244C	
BD230		BD179	BD245		TIP33C
BD231		BD238	BD245A		TIP33C
BD232		MJE340	BD245B		TIP33C
BD233		BD235	BD245C		TIP33C
BD234	BD234		BD246		TIP34C
BD235	BD235		BD246A		TIP34C
BD236	BD236		BD246B		TIP34C
BD237	BD237		BD246C		TIP34C
BD238	BD238		BD249		TIP35C
BD239		BD241A	BD249A		TIP35C
BD239A		BD241A	BD249B		TIP35C
BD239B		BD241B	BD249C		TIP35C
BD239C	BD239C		BD250		TIP36B
BD240		BD242B	BD250A		TIP36B
BD240A		BD242B	BD250B		TIP36B
BD240B		BD242B	BD250C		TIP36C
BD240C		BD242C	BD253		BU326A
BD241		BD241A	BD253A		BU326A
BD241A	BD241A		BD253B		BU326A
BD241B	BD241B		BD253C		BU326A
BD241BFI	BD241BFI		BD262		BD678
BD241BFP	BD241BFP		BD262A		BD680
BD241C	BD241C		BD262B		BD682
BD241CFP	BD241CFP		BD263		BD677
BD242		BD242B	BD263A		BD679
BD242A		BD242B	BD263B		BD681
BD242B	BD242B		BD264		BDX34B

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BD264A		BDX34B	BD307B		MJE182
BD264B		BDX34C	BD311		BDW51C
BD265		BDX33C	BD312		BDW52C
BD265A		BDX33C	BD313		BDW51C
BD265B		BDX33C	BD314		BDW52C
BD266		BDX54B	BD329		BD435
BD266A		BDX54B	BD330		MJE210
BD266B		BDX54C	BD331		MJD122T4
BD267		BDX53B	BD332		BD336
BD267A		BDX53B	BD333		MJD122T4
BD267B		BDX53C	BD334		BD336
BD268		BDW94B	BD336	BD336	
BD268A		BDW94B	BD337		BDX33C
BD269		BDW93B	BD338		BDX34C
BD269A		BDW93B	BD342		2N3055
BD271		BD535	BD343		MJ2955
BD272		BD534	BD344		BD138
BD273		BD535	BD345		BD139
BD274		BD536	BD346		BD710
BD275		BD537	BD347		BD709
BD276		BD538	BD348		BD140
BD277		BD708	BD349		BD139
BD278		BD707	BD361		BD433
BD278A		BD707	BD361A		BD433
BD279		2N6036	BD362		BD434
BD291		BD243B	BD362A		BD434
BD292		BD244B	BD375		BD235
BD293		BD243B	BD376		BD236
BD294		BD244B	BD377		BD237
BD295		BD243B	BD378		BD238
BD296		BD244B	BD379		BD237
BD301		BD535	BD380		BD140
BD302		BD534	BD385		MJE182
BD303		BD535	BD385-2		MJE182
BD304		BD536	BD385-5		MJE182
BD306A		MJE182	BD385-8		MJE182
BD306B		MJE182	BD386		MJE172
BD307A		MJE182	BD386-1		MJE172

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BD386-2		MJE172	BD466B		BD681
BD386-5		MJE172	BD477A		2N6036
BD386-8		MJE172	BD477B		2N6036
BD387		MJE182	BD500		BD910
BD387-1		MJE182	BD500A		BD910
BD387-2		MJE182	BD500B		BD910
BD387-5		MJE182	BD501		BD909
BD387-8		MJE182	BD501A		BD909
BD388		MJE172	BD501B		BD909
BD388-1		MJE172	BD533		BD535
BD388-2		MJE172	BD533FI		BD241BFP
BD388-5		MJE172	BD534	BD534	
BD388-8		MJE172	BD534FI		BD242BFP
BD410		MJE3440	BD535	BD535	
BD411		TIP112	BD536	BD536	
BD412		TIP112	BD536FI		BD242BFP
BD414		TIP117	BD537	BD537	
BD415		TIP29A	BD538	BD538	
BD416		TIP30A	BD539		BD909
BD417		TIP29C	BD539A		BD909
BD418		TIP30C	BD539B		BD909
BD429		TIP29A	BD539C		BD911
BD430		TIP30A	BD540		BD910
BD433	BD433		BD540A		BD910
BD434	BD434		BD540B		BD910
BD435	BD435		BD540C		BD912
BD436	BD436		BD543		BD909
BD437	BD437		BD543A		BD909
BD438	BD438		BD543B		BD909
BD439	BD439		BD543C		BD911
BD440	BD440		BD544		BD910
BD441	BD441		BD544A		BD910
BD442	BD442		BD544B		BD910
BD443		BD179	BD544C		BD912
BD443A		BD179	BD545		TIP35C
BD450		2N3055	BD545A		TIP35C
BD451		2N3055	BD545B		TIP35C
BD466A		BD681	BD545C		TIP35C

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BD546		TIP36B	BD612		BD438
BD546A		TIP36B	BD613		BD437
BD546B		TIP36B	BD614		BD438
BD546C		TIP36C	BD615		BD437
BD550B		BUV21	BD616		BD438
BD561		BD437	BD617		BD437
BD562		BD438	BD618		BD440
BD575		BD535	BD619		BD441
BD576		BD534	BD620		BD442
BD577		BD535	BD633		BD535
BD578		BD536	BD634		BD534
BD579		BD537	BD635		BD535
BD580		BD538	BD636		BD536
BD581		TIP31C	BD637		BD537
BD582		TIP32C	BD638		BD538
BD585		BD535	BD643		BDX53B
BD586		BD534	BD644		BDX54B
BD587		BD535	BD645		BDX53B
BD588		BD536	BD646		BDX54B
BD589		BD537	BD647		BDX53B
BD590		BD538	BD648		BDX54B
BD591		TIP31C	BD649		BDX53C
BD592		TIP32C	BD650		BDX54C
BD595		BD709	BD650F		BDW94CFI
BD596		BD708	BD650H		BDX54C
BD597		BD707	BD651		BDX53F
BD598		BD708	BD652		BDX54F
BD599		BD709	BD661K		TIP31C
BD600		BD710	BD662K		TIP32B
BD601		BD711	BD663		2N6488
BD602		BD912	BD664		BD912
BD605		BD909	BD675		BD677
BD606		BD910	BD675A		BD677A
BD607		BD909	BD676		BD678
BD608		BD910	BD676A		BD678A
BD609		BD909	BD677	BD677	
BD610		BD910	BD677A	BD677A	
BD611		BD437	BD678	BD678	

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BD678A	BD678A		BD743C		BD911
BD679	BD679		BD744		BD912
BD679A	BD679A		BD744A		BD912
BD680	BD680		BD744B		BD912
BD680A	BD680A		BD744C		BD912
BD681	BD681		BD745		TIP35C
BD682	BD682		BD745A		TIP35C
BD695		BDW93B	BD745B		TIP35C
BD695A		BDX53B	BD745C		TIP35C
BD696A		BDX54B	BD746		TIP36B
BD697		BDX53B	BD746A		TIP36B
BD697A		BDX53B	BD746B		TIP36B
BD698		BDX54B	BD746C		TIP36C
BD698A		BDX54B	BD785		BD179
BD699		BDX53B	BD786		BD234
BD699A		BDX53B	BD787		MJE182
BD700		BDX54B	BD788		MJE172
BD700A		BDX54B	BD789		BD179
BD701		BDX53C	BD795		BD707
BD702		BDX54C	BD796		BD708
BD705		BD707	BD797		BD707
BD706		BD708	BD798		BD708
BD707	BD707		BD799		BD709
BD708	BD708		BD800		BD710
BD709	BD709		BD801		BD711
BD710	BD710		BD802		BD912
BD711	BD711		BD805		BD909
BD712		BD912	BD806		BD910
BD733		BD535	BD807		BD909
BD734		BD534	BD808		BD910
BD734B		BD911	BD809		BD909
BD735		BD535	BD810		BD910
BD736		BD534	BD815		MJE182
BD737		BD535	BD816		MJE172
BD738		BD534	BD825		MJE182
BD743		BD911	BD826		MJE172
BD743A		BD911	BD828		MJE172
BD743B		BD911	BD834		MJE172

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BD835		MJE182	BD933		BD241B
BD836		MJE172	BD934		BD242B
BD837		BD179	BD935		BD241B
BD861		BD677	BD936		BD242B
BD862		BD678	BD937		BD241B
BD863		BD677	BD938		BD242B
BD864		BD678	BD939		BD239C
BD865		BD679	BD940		BD242C
BD866		BD680	BD943		BD535
BD875		BD677	BD943F		BD241BFP
BD876		BD678	BD944		BD534
BD877		BD677	BD944F		BD242BFP
BD878		BD678	BD945		BD535
BD879		BD679	BD945/T		BD435
BD880		BD680	BD946F		BD242BFP
BD895		BDW93B	BD947		BD535
BD895A		BDW93B	BD948		BD534
BD896		BDW94B	BD949		BD241A
BD896A		BDW94B	BD950		BD536
BD897		BDW93B	BD951		BD241B
BD897A		BDW93B	BD952		BD242B
BD898		BDW94B	BD953		BD241C
BD898A		BDW94B	BD954		BD242C
BD899		BDW93B	BDT20/T		BDX54F
BD899A		BDW94B	BDT21		BDX53F
BD900		BDW94B	BDT29		TIP29A
BD900A		BDW94B	BDT29A		TIP29A
BD901		BDW94C	BDT29B		TIP29C
BD902		BDW94C	BDT29C		TIP29C
BD905		BD909	BDT30		TIP30A
BD905FI	BD905FI		BDT30A		TIP30A
BD906		BD910	BDT30B		TIP30C
BD907		BD909	BDT30C		TIP30C
BD908		BD910	BDT31		TIP31A
BD909	BD909		BDT31A		TIP31A
BD910	BD910		BDT31B		TIP31C
BD911	BD911		BDT31C		TIP31C
BD912	BD912		BDT32		TIP32A



## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BDT32A		TIP32A	BDT92		BD910
BDT32B		TIP32B	BDT93		BD909
BDT32C		TIP32C	BDT94		BD910
BDT41		TIP41B	BDT95		BD911
BDT41A		TIP41B	BDT96		BD912
BDT41B		TIP41B	BDV64		TIP147
BDT41C		TIP41C	BDV64A		TIP147
BDT42		TIP42A	BDV64B		TIP147
BDT42A		TIP42A	BDV64C		TIP147
BDT42B		TIP42C	BDV65		TIP141
BDT42C		TIP42C	BDV65A		TIP141
BDT60		TIP125	BDV65B		TIP142
BDT60A		TIP126	BDV65C		TIP142
BDT60B		TIP127	BDV66A		SGSD200
BDT60C		BDX54F	BDV66B		SGSD200
BDT60F		BDW94CFI	BDV67		BDW83C
BDT61		TIP120	BDV67A		BDW83C
BDT61A		TIP121	BDV67B		BDW83C
BDT61B		TIP122	BDV91		TIP33C
BDT61C		BDX53C	BDV92		TIP34C
BDT62		BDW94B	BDV93		TIP33C
BDT62A		BDW94B	BDV94		TIP34C
BDT62B		BDW94C	BDV95		TIP33C
BDT63		BDW93B	BDV96		TIP34C
BDT63A		BDW93B	BDW21		BDW51C
BDT63B		BDW93C	BDW21A		BDW51C
BDT63C		BDW93C	BDW21B		BDW51C
BDT64		TIP147T	BDW21C		BDW51C
BDT64A		TIP147T	BDW22		BDW52C
BDT64B		TIP147T	BDW22A		BDW52C
BDT64C		TIP147T	BDW22B		BDW52C
BDT65		TIP142T	BDW22C		BDW52C
BDT65A		TIP142T	BDW23		BDX53B
BDT65B		TIP142T	BDW23A		TIP110
BDT65C		TIP142T	BDW23B		BDX53B
BDT85		BD911	BDW23C		BDX53C
BDT86		BD912	BDW24		TIP125
BDT91		BD909	BDW24A		TIP125

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BDW24B		TIP126	BDW64B		TIP126
BDW24C		TIP127	BDW64C		TIP127
BDW39		TIP142T	BDW73		TIP100
BDW40		TIP142T	BDW73A		TIP100
BDW41		TIP142T	BDW73B		TIP102
BDW42		TIP142T	BDW73C		TIP102
BDW43		TIP142T	BDW73D		TIP102
BDW46		TIP147T	BDW74		TIP105
BDW47		TIP147T	BDW74A		TIP105
BDW48		TIP147T	BDW74B		TIP107
BDW51		BDW51C	BDW74C		TIP107
BDW51A		BDW51C	BDW74D		TIP107
BDW51B		BDW51C	BDW83		BDW83C
BDW51C	BDW51C		BDW83A		BDW83C
BDW52		BDW52C	BDW83B		BDW83C
BDW52A		BDW52C	BDW83C	BDW83C	
BDW52B		BDW52C	BDW84		SGSD200
BDW52C	BDW52C		BDW84A		SGSD200
BDW53		BDX53B	BDW84B		SGSD200
BDW53A		BDX53B	BDW84C	BDW84C	
BDW53B		BDX53B	BDW93		BDW93B
BDW53C		BDX53C	BDW93A		BDW93B
BDW53D		BDX53C	BDW93AFI		BDW93CFI
BDW54		BDX54B	BDW93B	BDW93B	
BDW54A		BDX54B	BDW93BFI		BDW93CFI
BDW54B		BDX54B	BDW93C	BDW93C	
BDW54C		BDX54C	BDW93CFI	BDW93CFI	
BDW54D		BDX54C	BDW93FI		BDW93CFI
BDW55		BD135	BDW94		BDW94B
BDW57		BD139	BDW94A		BDW94B
BDW58		BD138	BDW94B	BDW94B	
BDW63		TIP120	BDW94C	BDW94C	
BDW63A		TIP120	BDW94CFI	BDW94CFI	
BDW63B		TIP121	BDW94FI		BDW94CFI
BDW63C		TIP122	BDX13		BDW51C
BDW63D		TIP122	BDX18		BDW52C
BDW64		TIP125	BDX33		BDX33C
BDW64A		TIP125	BDX33A		BDX33C

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BDX33B		BDX33C	BDX64B		BDX88C
BDX33C	BDX33C		BDX65		BDX87C
BDX33D		BDX33C	BDX65A		BDX87C
BDX34		BDX34B	BDX65B		BDX87C
BDX34A		BDX34B	BDX66		MJ2501
BDX34B	BDX34B		BDX66A		MJ2501
BDX34C	BDX34C		BDX66B		MJ4032
BDX34D		BDX34C	BDX67		MJ3001
BDX35		TIP42C	BDX67A		MJ3001
BDX42		BD677	BDX67B		MJ4035
BDX43		BD679	BDX68		MJ11013
BDX44		BD681	BDX68A		MJ11013
BDX45		BD678	BDX68B		2N6287
BDX46		BD680	BDX68C		2N6287
BDX47		BD682	BDX69		MJ11014
BDX53		BDX53B	BDX69A		MJ11014
BDX53A		BDX53B	BDX69B		MJ11016
BDX53B	BDX53B		BDX69C		MJ11016
BDX53BFI	BDX53BFI		BDX70		2N6487
BDX53C	BDX53C		BDX71		2N6487
BDX53D		BDX53C	BDX72		2N6488
BDX53E		BDX53F	BDX73		2N6488
BDX53F	BDX53F		BDX74		2N6487
BDX54		BDX54B	BDX75		2N6487
BDX54A		BDX54B	BDX77		BD709
BDX54B	BDX54B		BDX78		BD710
BDX54C	BDX54C		BDX83		BDX87C
BDX54D		BDX54C	BDX83A		BDX87C
BDX54E		BDX54F	BDX83B		BDX87C
BDX54F	BDX54F		BDX83C		BDX87C
BDX62		BDX88C	BDX84		BDX88C
BDX62A		BDX88C	BDX84A		BDX88C
BDX62B		BDX88C	BDX84B		BDX88C
BDX63		BDX87C	BDX84C		BDX88C
BDX63A		BDX87C	BDX85		BDX87C
BDX63B		BDX87C	BDX85A		BDX87C
BDX64		BDX88C	BDX85B		BDX87C
BDX64A		BDX88C	BDX85C		BDX87C

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BDX86		BDX88C	BDY96		BUX80
BDX86A		BDX88C	BDY96-1		BUX48
BDX86B		BDX88C	BDY97		BUX48
BDX86C		BDX88C	BDY97-1		BUX48
BDX87		BDX87C	BFX34	BFX34	
BDX87A		BDX87C	BFX34S		BFX34
BDX87B		BDX87C	BSS44	BSS44	
BDX87C	BDX87C		BSW67		BUY49S
BDX88		BDX88C	BSW68		BUY49S
BDX88A		BDX88C	BU104DP		BU407D
BDX88B		BDX88C	BU104P		BU406
BDX88C	BDX88C		BU105		BU208A
BDX91		BDW51C	BU108		BU208A
BDX92		BDW52C	BU109DP		BU407D
BDX93		BDW51C	BU109P		BU407
BDX94		BDW52C	BU111		BU326A
BDX95		BDW51C	BU124		BU406
BDX96		BDW52C	BU124A		BU407
BDY29		2N5886	BU125		BUY49S
BDY34		MJE182	BU125S		BUY49S
BDY53		BUX10	BU126		BU326A
BDY54		BUX10	BU126A		BUX80
BDY55		BUX10	BU133		BU326A
BDY56		BUX10	BU134		BU326A
BDY57		2N3772	BU137		BUY69A
BDY58		BUX10	BU157		BU208A
BDY76		2N3772	BU184		BU806
BDY80		BD241A	BU204		BU208A
BDY81		BD241A	BU205		BU208A
BDY82		BD242B	BU205A		BU208A
BDY83		BD242B	BU207		BU208A
BDY90	BDY90		BU208		BU208A
BDY90P	BDY90P		BU208A	BU208A	
BDY91		BDY90	BU208D	BU208D	
BDY92		BDY90	BU322		BU931
BDY93		BU326A	BU322A		BU931
BDY94		BU326A	BU323		BU931
BDY95		BU326A	BU323A		BU931

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BU326		BU326A	BU930ZP		BU941ZP
BU326A	BU326A		BU931	BU931	
BU326S		BU326A	BU931P	BU931P	
BU361		BUY69A	BU931PFI		BU931P
BU406	BU406		BU931R		BU931
BU406D		BU407D	BU931RP		BU931P
BU407	BU407		BU931RPFI		BU931P
BU407D	BU407D		BU931T	BU931T	
BU407FI		BU407	BU931Z		BU941Z
BU408		BU406	BU931ZP		BU941ZP
BU409		BU407	BU931ZPFI		BU941ZPFI
BU426		BU426A	BU931ZT		BU941ZT
BU426A	BU426A		BU931ZTFI		BU941ZTFI
BU433		BUV48A	BU932		BU931
BU500		BU208A	BU932P		BU931P
BU505	BU505		BU932R		BU931
BU508		BU508A	BU932RP		BU931P
BU508A	BU508A		BU932RPFI		BU931P
BU508AFI	BU508AFI		BU941	BU941	
BU508AT		BUL416	BU941P	BU941P	
BU508D		BU508DFI	BU941PFI	BU941PFI	
BU508DFI	BU508DFI		BU941T		BU931T
BU508FI		BU508AFI	BU941TFI	BU941TFI	
BU806	BU806		BU941Z	BU941Z	
BU806FI	BU806FI		BU941ZP	BU941ZP	
BU807	BU807		BU941ZPFI	BU941ZPFI	
BU807FI		BU806FI	BU941ZT	BU941ZT	
BU808		BU208A	BU941ZTFI	BU941ZTFI	
BU808DFI	BU808DFI		BU999		BUW90
BU810	BU810		BU1706A		BUL216
BU910		BU931T	BU2506DF		BUH315D
BU911		BU931T	BU2508A		BU508A
BU912		BU931T	BU2508AF		THD277HI
BU921		BU931	BU2508DF		THD218DHI
BU921P		BU931P	BU2520AF		THD200FI or THD215HI
BU921T		BU931T	BU2522AF		THD200FI or THD215HI
BU922T		BU931T	BU2525A		BUH1015
BU930Z		BU941Z	BU2525AF		BUH1015HI

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BU2527AF		BUH1015	BUH1015HI	BUH1015HI	
BUB931T	BUB931T		BUH1215	BUH1215	
BUB941T		BUB941ZT	BUL26		
BUB941ZT	BUB941ZT		BUL43B		BUL128
BUF298AV		BUV298AV	BUL44		BUL128
BUF405		BUF405A	BUL44D2		BUL128D
BUF405A	BUF405A		BUL45		BUL138
BUF405AFI		BUF405A	BUL48		BUL138
BUF405FI		BUF405A	BUL57	BUL57	
BUF410	BUF410		BUL57PI	BUL57PI	
BUF410A	BUF410A		BUL58D	BUL58D	
BUF410AFI		BUF410A	BUL67	BUL67	
BUF410AI		BUF410	BUL87	BUL87	
BUF410FI		BUF410	BUL128	BUL128	
BUF410I		BUF410	BUL128D	BUL128D	
BUF420		BUF420A	BUL138	BUL138	
BUF420A	BUF420A		BUL146		BUL138
BUF420AI	BUF420AI		BUL146F		BUL138
BUF420I		BUF420A	BUL147		BUL67
BUF420M	BUF420M		BUL213	BUL213	
BUF460AV	BUF460AV		BUL216	BUL216	
BUF460V		BUF460AV	BUL310	BUL310	
BUF654		BUL67	BUL310PI	BUL310PI	
BUH2M20AP	BUH2M20AP		BUL381	BUL381	
BUH50		BUL38D	BUL381D	BUL381D	
BUH51		BULT118	BUL382	BUL382	
BUH100		BUL510	BUL382D	BUL382D	
BUH150		BUL67	BUL38D	BUL38D	
BUH200		BUL87	BUL416	BUL416	
BUH313		BUH315	BUL510	BUL510	
BUH315	BUH315		BUL770		BUL128
BUH315D	BUH315D		BUL791		BUL138
BUH513		BUH515	BUL810	BUL810	
BUH515	BUH515		BULD85KC		BUL128D
BUH515D	BUH515D		BULD50KC		BUL128D
BUH615D	BUH615D		BULD118-1	BULD118-1	
BUH715		THD200FI	BULD118D-1	BULD118D-1	
BUH1015	BUH1015		BULD125KC		BUL382D

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BULD128D-1	BULD128D-1		BUT70	BUT70	
BULF791		BUL67	BUT90	BUT90	
BULK128D	BULK128D		BUT92	BUT92	
BULK38D	BULK38D		BUT92A	BUT92A	
BULK380D	BULK380D		BUT100	BUT100	
BULK381		BUL128	BUT102		BUT32V
BULK381D	BULK381D		BUT230V		BUT232V
BULK382		BUL128	BUT232V	BUT232V	
BULT118	BULT118		BUTW92	BUTW92	
BULT118D	BULT118D		BUV18		BUR50S
BUR20		BUV20	BUV18A		BUT90
BUR21		BUV21	BUV19		BUR50S
BUR22		BUV21	BUV20	BUV20	
BUR24		BUX98A	BUV21	BUV21	
BUR50		BUR50S	BUV21N		BUV21
BUR50S	BUR50S		BUV22	BUV22	BUV21
BUR51	BUR51		BUV23		BUX98A
BUR52	BUR52		BUV24		BUX98A
BUS11		BUL128	BUV25		BUX98A
BUS12		BUY69A	BUV26	BUV26	
BUS12A		BUY69A	BUV27	BUV27	
BUS13		BUX48	BUV28	BUV28	
BUS13A		BUX48A	BUV39		BUX10
BUS14A		BUX98A	BUV40		BUX10
BUS46P		BUL128	BUV42A		BUX48
BUS47		BUX48	BUV44		BUX48
BUS47A		BUX48A	BUV45		BUX48A
BUS48		BUX48	BUV46	BUV46	
BUS48A		BUX48A	BUV46A	BUV46A	
BUT11		BUT11A	BUV46FI	BUV46FI	
BUT11A	BUT11A		BUV47		BUV48A
BUT11AFI		BUL310PI	BUV47A		BUV48A
BUT11FI		BUL310PI	BUV47AFI		BUV48AFI
BUT12A		BUL510	BUV47AI		BUV48AFI
BUT18		BUL510	BUV47FI		BUV48AFI
BUT18A		BUL510	BUV47I		BUV48AFI
BUT30V	BUT30V		BUV48		BUV48A
BUT32V	BUT32V		BUV48A	BUV48A	

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BUV48AFI	BUV48AFI		BUW32P		MJE5852
BUV48AI		BUV48AFI	BUW34		BUX80
BUV48B		BUV48C	BUW35		BUY69A
BUV48BFI		BUV48CFI	BUW36		BUY69A
BUV48C	BUV48C		BUW38	BUW38	BUR50S
BUV48CFI	BUV48CFI		BUW39		BUR50S
BUV48CI		BUV48CFI	BUW42		BUW42A
BUV48FI		BUV48AFI	BUW42A	BUW42A	
BUV48I		BUV48AFI	BUW44		BUX48
BUV50	BUV50		BUW45		BUX48A
BUV51		BUX12	BUW46		BUX48A
BUV52		BUX12	BUW48	BUW48	
BUV52A		BUX48	BUW49	BUW49	
BUV56		BUL67	BUW50	BUW50	
BUV60		BUR50S	BUW57		BUX10
BUV61	BUV61		BUW72		MJE13009
BUV62		BUV21	BUW73		BUX12
BUV98AF		BUV98AV	BUW74		BUX48
BUV98AV	BUV98AV		BUW75		BUX48
BUV98CV		BUV98AV	BUW76		BUX48
BUV98V		BUV98AV	BUW77		BUX48
BUV298AV	BUV298AV		BUW84		ST13003
BUV298CV		BUV298AV	BUW85		ST13003
BUV298F		BUV298V	BUW89	BUW89	
BUV298V	BUV298V		BUW90	BUW90	
BUW11A		BU426A	BUX10	BUX10	
BUW12		BUV48A	BUX100		BULT118
BUW12A		BUV48A	BUX10P		BUW90
BUW13A		BUV48A	BUX10S		BUX10
BUW22		MJE5852	BUX11S		BUX12
BUW22A		MJE5852	BUX12	BUX12	
BUW22AP		MJE5852	BUX13		BUX48
BUW22P		MJE5852	BUX14		BUX48
BUW24		BU326A	BUX15		BUX48
BUW26		BU326A	BUX16		BU326A
BUW32		MJE5852	BUX16A		BU326A
BUW32A		BUW42A	BUX16B		BU326A
BUW32AP		MJE5852	BUX16C		BU326A



## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
BUX17A		BUV21	BUX98P		BUX98AP
BUX17B		BUX48	BUX98PI	BUX98PI	
BUX17C		BUX48	BUXD87T4	BUXD87T4	
BUX18		BUV21	BUY49S	BUY49S	
BUX18A		BUV21	BUY69A	BUY69A	
BUX18B		BUY69A	BUY69B		BUY69A
BUX18C		BUY69A	BUY69C		BUY69A
BUX21	BUX21		BUY70A		BU326A
BUX22	BUX22		BUY70B		BU326A
BUX23		BUX98A	BUY70C		BU326A
BUX24		BUX98A	D40C1		MJE802
BUX25		BUX98A	D40C2		MJE802
BUX29		BU931	D40C4		MJE802
BUX348	BUX348		D40C5		MJE802
BUX37		BU931	D40D1		MJE182
BUX39		BUX10	D40D10		MJE182
BUX40		BUX10	D40D11		MJE182
BUX42		BUV21	D40D13		MJE182
BUX43		BUX48	D40D14		MJE182
BUX44		BUY69A	D40D2		MJE182
BUX47		BUX80	D40D3		MJE182
BUX47A		BUY69A	D40D4		MJE182
BUX48	BUX48		D40D5		MJE182
BUX48A	BUX48A		D40D7		MJE182
BUX48C	BUX48C		D40D8		MJE182
BUX48S		BUX48	D40E1		MJE182
BUX80	BUX80		D40E5		MJE182
BUX81		BUY69A	D40E7		MJE182
BUX82		BU326A	D40K1		MJE802
BUX83		BU326A	D40K2		MJE802
BUX84		BUV46	D40K3		MJE802
BUX85		BUT11A	D40K4		MJE802
BUX86		ST13003	D40N1		MJE340
BUX87	BUX87		D40N2		MJE340
BUX98		BUX98A	D40N3		MJE340
BUX98A	BUX98A		D40N4		MJE340
BUX98AP	BUX98AP		D40P5		MJE340
BUX98C	BUX98C		D41C2		D44H8

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
D41D1		BD238	D44D2		TIP102
D41D2		BD238	D44H2		D44H8
D41D4		BD238	D44H4		D44H11
D41D5		BD238	D44H5		D44H8
D41D7		BD238	D44H7		D44H11
D41D8		BD238	D44H8	D44H8	
D41D10		BD238	D44H10		D44H11
D41D11		BD238	D44H11	D44H11	
D41D13		BD238	D44R1		TIP47
D41D14		BD238	D44R2		TIP47
D41E1		BD238	D44R3		TIP48
D41E5		BD238	D44R4		TIP48
D41E7		BD238	D44R5		TIP47
D41K1		BD680A	D44R6		TIP48
D41K2		BD680A	D44TD3		BUL128
D41K3		BD680A	D44TD4		BUL128
D41K4		BD680A	D44TD5		BUL128
D42C1		MJE182	D44TE3		BUL128
D42C2		MJE182	D44TE4		BUL128
D42C3		MJE182	D44TE5		BUL128
D42C4		MJE172	D45E1		TIP125
D42C5		MJE172	D45E2		TIP126
D42C6		MJE172	D45E3		TIP126
D42C7		MJE172	D45H1		D45H5
D42C8		MJE172	D45H2		D45H8
D42C9		MJE172	D45H4		D45H8
D43C1		MJE182	D45H5	D45H5	
D43C2		MJE182	D45H7		D45H8
D43C3		MJE182	D45H8	D45H8	
D43C4		MJE172	D45H10		D45H8
D43C5		MJE172	D45H11	D45H11	
D43C6		MJE172	D56W1		BU208A
D43C7		MJE172	D56W2		BU208A
D43C8		MJE172	D56W3		BU208A
D43C9		MJE172	D56W4		BU208A
D44D1		TIP102	DK52		ST13003
D44D1		TIP102	DK53		BUL128
D44D2		TIP102	ESM2012DV	ESM2012DV	

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
ESM2030DV	ESM2030DV		KSD526		TIP31C
ESM3030DV	ESM3030DV		KSD560		BDX33C
ESM3045AV		ESM6045AV	KSD568		D44H11
ESM3045DV	ESM3045DV		KSD569		D44H11
ESM4045AV		ESM6045AV	KSD794		MJE182
ESM4045DV	ESM4045DV		KSD794A		MJE182
ESM5045DV	ESM5045DV		KSD880		TIP31C
ESM6045AV	ESM6045AV		KSD882		MJE182
ESM6045DV	ESM6045DV		KSD985		BD679
HLB123B		BULT118	KSD986		BD679
KSA614		TIP42C	KSD5072		THD218DHI
KSA1220A		MJE350	KSE13004		ST13005
KSB596		TIP32B	KSE13005		ST13005
KSB601		BDX34C	KSE13006		ST13007
KSB744		MJE172	KSE13007		ST13007
KSB744A		MJE172	KSE13008		BUL87
KSB772		MJE172	KSE13009		BUL87
KSB794		BD680A	MDS20		MJE3440
KSB795		BD680A	MDS21		MJE3440
KSB834		TIP32B	MDS27		MJE182
KSC1520		MJE3440	MDS60		MJE350
KSC2233		TIP41C	MDS73		MJE172
KSC2517		TIP41C	MDS74		MJE172
KSC2688		MJE3440	MDS76		MJE182
KSC2690		MJE340	MDS77		MJE172
KSC2690A		MJE340	MDS1678		MJE182
KSC5020		BUL128	MJ105		BU208A
KSC5021		BUL138	MJ205		BU208A
KSC5023		BUL310	MJ424		BUY69A
KSC5024		BUL310	MJ425		BUY69A
KSC5026		BUL216	MJ480		2N3055
KSC5027		BUL216	MJ481		2N3055
KSC5039		BUL138	MJ490		BDW52C
KSC5060		BUL310	MJ491		BDW52C
KSC5061		BUL310	MJ701		BU208A
KSD73		D44H8	MJ702		BU208A
KSD288		TIP41B	MJ704		BU208A
KSD362		D44H11	MJ721		BU208A

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
MJ723		BU208A	MJ8504		BU208A
MJ802	MJ802		MJ10003		BU931P
MJ804		BU208A	MJ10012		BU931
MJ900		MJ2501	MJ11011		MJ11013
MJ901		MJ2501	MJ11012		MJ11014
MJ1000		MJ3001	MJ11013	MJ11013	
MJ1001		MJ3001	MJ11014	MJ11014	
MJ2267		MJ2955	MJ11015		2N6287
MJ2268		MJ2955	MJ11016	MJ11016	
MJ2300		MJE182	MJ12002		BU208A
MJ2500		MJ2501	MJ12003		BU208A
MJ2501	MJ2501		MJ12004		BU208A
MJ2801		2N3055	MJ13010		2N6547
MJ2855		MJ2955	MJ13014		BUX80
MJ2901		TIP2955	MJ13015		BUX80
MJ2955	MJ2955		MJ13018		BUX98A
MJ3000		MJ3001	MJ13019		BUX98A
MJ3001	MJ3001		MJ13330		BUV21
MJ3029		BU326A	MJ13331		BUV21
MJ3030		BU326A	MJ13332		BUX98A
MJ3042		BU931	MJ13333		BUX98A
MJ3055		2N3055	MJ13334		BUX98A
MJ4030		MJ4032	MJ13335		BUX48
MJ4031		MJ4032	MJ15001		BUV50
MJ4032	MJ4032		MJ15011		BUV21
MJ4033		MJ4035	MJ15015		2N3055
MJ4034		MJ4035	MJ15016		MJ2955
MJ4035	MJ4035		MJ15022		BUX12
MJ4247		BUV21	MJ16018		BU208A
MJ4248		BUV21	MJD31BT4	MJD31BT4	
MJ4360		ST13003	MJD31CT4	MJD31CT4	
MJ4380		ST13005	MJD32BT4	MJD32BT4	
MJ4401		ST13005	MJD32CT4	MJD32CT4	
MJ4502	MJ4502		MJD44H11T4	MJD44H11T4	
MJ8500		BU208A	MJD45H11T4	MJD45H11T4	
MJ8501		BU208A	MJD47T4	MJD47T4	
MJ8502		BU208A	MJD50T4	MJD50T4	
MJ8503		BU208A	MJD112T4	MJD112T4	

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
MJD117T4	MJD117T4		MJE42A		TIP42C
MJD122T4	MJD122T4		MJE42B		TIP42C
MJD127T4	MJD127T4		MJE42C		TIP42C
MJD200T4	MJD200T4		MJE47		TIP47
MJD210T4	MJD210T4		MJE48		TIP48
MJD340T4	MJD340T4		MJE49		TIP49
MJD350T4	MJD350T4		MJE492		2N5195
MJD2955T4	MJD2955T4		MJE53		ST13005
MJD3055T4	MJD3055T4		MJE53T		ST13005
MJE29		TIP31C	MJE101		MJE2955T
MJE29A		TIP31C	MJE102		MJE2955T
MJE29B		TIP31C	MJE103		MJE2955T
MJE29C		TIP31C	MJE104		MJE2955T
MJE30		TIP32B	MJE105		TIP42C
MJE30A		TIP32B	MJE170		MJE172
MJE30B		TIP32B	MJE171		MJE172
MJE30C		TIP32C	MJE172	MJE172	
MJE31		TIP31C	MJE180		MJE182
MJE31A		TIP31C	MJE181		MJE182
MJE31B		TIP31C	MJE182	MJE182	
MJE31C		TIP31C	MJE200		BD435
MJE32		TIP32B	MJE201		MJE3055T
MJE32A		TIP32B	MJE202		MJE3055T
MJE32B		TIP32B	MJE203		MJE3055T
MJE32C		TIP32C	MJE204		MJE3055T
MJE33		TIP41B	MJE205		MJE3055T
MJE33A		TIP41B	MJE205K		TIP41B
MJE33B		TIP41B	MJE210	MJE210	
MJE33C		TIP41C	MJE220		MJE182
MJE34		TIP42C	MJE221		MJE182
MJE34A		TIP42C	MJE222		MJE182
MJE34B		TIP42C	MJE223		MJE182
MJE34C		TIP42C	MJE224		MJE182
MJE41		TIP41B	MJE225		MJE182
MJE41A		TIP41B	MJE230		MJE172
MJE41B		TIP41B	MJE231		MJE172
MJE41C		TIP41C	MJE232		MJE172
MJE42		TIP42C	MJE233		MJE172

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
MJE234	MJE340	MJE172	MJE800	MJE802	MJE802
MJE243		BD237	MJE800T		TIP110
MJE253		BD238	MJE801		BD679
MJE270		MJE182	MJE801T		TIP120
MJE340		MJE340	MJE802		TIP121
MJE340K		MJE340	MJE802T		BD679
MJE341K		MJE340	MJE803		TIP121
MJE344K		MJE340	MJE803T		TIP107
MJE345		MJE3440	MJE1090		TIP107
MJE350		MJE350	BD436		MJE1091
MJE370	BD436		MJE1092	TIP107	
MJE370K	BD436		MJE1093	TIP107	
MJE371	BD436		MJE1100	TIP102	
MJE371K	2N5191		MJE1101	TIP102	
MJE482	2N5191		MJE1102	TIP102	
MJE483	2N5192		MJE1103	TIP102	
MJE484	2N5191		MJE1290	BD912	
MJE488	2N5195		MJE1291	BD912	
MJE493	2N5195		MJE1660	2N6487	
MJE494	MJE521	MJE1661	2N6487		
MJE520	MJE521	MJE521	MJE2010	TIP42C	
MJE520K		TIP31C	MJE2011	TIP42C	
MJE521		TIP31C	MJE2020	TIP41B	
MJE521K		BD678A	MJE2021	TIP41B	
MJE700		TIP115	MJE2050	BD435	
MJE700T		BD680A	MJE2055	MJE3055T	
MJE701		BD680A	MJE2090	TIP125	
MJE701T		BD680A	MJE2091	TIP125	
MJE702		BD680A	MJE2092	TIP126	
MJE702T		TIP126	MJE2093	TIP126	
MJE703	BD680A	MJE2100	TIP120		
MJE703T	TIP126	MJE2101	TIP120		
MJE710	BD238	MJE2102	TIP121		
MJE711	BD238	MJE2103	TIP121		
MJE712	BD238	MJE2150	MJE210		
MJE720	BD235	MJE2160	TIP48		
MJE721	BD237	MJE2370	TIP32B		
MJE722	BD237	MJE2371	TIP32B		

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
MJE2482		TIP31C	MJE4922		TIP31C
MJE2483		TIP31C	MJE4923		TIP31C
MJE2490		TIP32B	MJE5133		TIP32B
MJE2491		TIP32B	MJE5190		TIP31C
MJE2520		TIP31C	MJE5191		TIP31C
MJE2521		TIP31C	MJE5192		TIP31C
MJE2522		TIP31C	MJE5194		TIP32B
MJE2523		TIP31C	MJE5195		TIP32C
MJE2801		MJE3055T	MJE5220		D44H11
MJE2801K		MJE3055T	MJE5221		D44H11
MJE2801T		MJE3055T	MJE5230		D45H8
MJE2901		MJE2955T	MJE5231		D45H8
MJE2901K		MJE2955T	MJE5655		TIP47
MJE2901T		MJE2955T	MJE5656		TIP48
MJE2955		MJE2955T	MJE5657		TIP49
MJE2955K		MJE2955T	MJE5852	MJE5852	
MJE2955T	MJE2955T		MJE5960		2N6490
MJE3055		MJE3055T	MJE5974		TIP42C
MJE3055K		MJE3055T	MJE5975		TIP42C
MJE3055T	MJE3055T		MJE5976		TIP42C
MJE3300		BD681	MJE5977		TIP41B
MJE3301		BD681	MJE5978		TIP41B
MJE3302		BD681	MJE5979		TIP41B
MJE3310		2N6036	MJE5980		2N6490
MJE3311		2N6036	MJE5981		2N6490
MJE3312		2N6036	MJE5982		BD912
MJE3370		TIP30A	MJE5983		2N6487
MJE3371		TIP30C	MJE5984		2N6487
MJE3439		MJE3440	MJE5985		2N6488
MJE3440	MJE3440		MJE6045		TIP102
MJE3520		TIP29A	MJE6045		TIP102
MJE3521		TIP29C	MJE8502		BU508A
MJE3738		TIP47	MJE8503		BU508A
MJE3739		TIP48	MJE13002		ST13003
MJE4918		TIP32B	MJE13003		ST13003
MJE4919		TIP32B	MJE13004		ST13005
MJE4920		TIP32B	MJE13005		ST13005
MJE4921		TIP31C	MJE13006		ST13007

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
MJE13007		ST13007	NSE180		MJE182
MJE13007A	MJE13007A		NSE181		MJE182
MJE13008		MJE13009	NSP41		TIP41B
MJE13009	MJE13009		NSP41B		TIP41B
MJE13070		BUL128	NSP41C		TIP41C
MJE13071		BUL128	NSP42		TIP42C
MJE15020		ST13007	NSP42A		TIP42C
MJE16002		BUL128	NSP42B		TIP42C
MJE18002		BUL310	NSP42C		TIP42C
MJE18004		BUL310	NSP4918		TIP32B
MJE18006		BUL310	NSP105		TIP42C
MJE18008		BUL510	NSP205		TIP41B
MJE18204		BUL310	NSP370		TIP32B
MJE18604D2		BUL216	NSP371		TIP32B
MJE18605D2		BUL216	NSP520		TIP31C
MJH12004		BU508A	NSP521		TIP31C
MJW16212		BUH1015	NSP575		TIP31C
NSD102		BD237	NSP576		TIP32B
NSD103		BD237	NSP577		TIP31C
NSD104		BD237	NSP578		TIP32B
NSD105		BD237	NSP579		TIP31C
NSD106		BD237	NSP580		TIP32B
NSD131		MJE340	NSP581		TIP31C
NSD132		MJE340	NSP582		TIP32C
NSD133		MJE340	NSP585		TIP31C
NSD134		MJE340	NSP586		TIP32B
NSD135		MJE340	NSP587		TIP31C
NSD151		MJE802	NSP588		TIP32B
NSD152		MJE802	NSP589		TIP31C
NSD202		BD238	NSP590		TIP32B
NSD203		BD238	NSP595		TIP31C
NSD204		BD238	NSP596		TIP32B
NSD205		BD238	NSP597		TIP31C
NSD206		BD238	NSP598		TIP32B
NSD3439		MJE3440	NSP599		TIP31C
NSD3440		MJE3440	NSP600		TIP32B
NSE170		MJE172	NSP695		TIP120
NSE171		MJE172	NSP695A		TIP102



## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
NSP695A		TIP102	NSP4922		TIP31C
NSP696		TIP125	NSP4923		TIP31C
NSP696		TIP125	NSP5190		TIP31C
NSP696A		TIP107	NSP5191		TIP31C
NSP697		TIP120	NSP5192		TIP31C
NSP697A		TIP102	NSP5193		TIP32B
NSP697A		TIP102	NSP5194		TIP32B
NSP698A		TIP107	NSP5195		TIP32C
NSP699		TIP121	NSP5974		TIP42C
NSP699A		TIP102	NSP5975		TIP42C
NSP699A		TIP102	NSP5976		TIP42C
NSP700		TIP126	NSP5977		TIP41B
NSP700A		TIP107	NSP5978		TIP41B
NSP701		TIP122	NSP5979		TIP41B
NSP702		TIP127	NSP5980		2N6490
NSP2010		TIP42C	NSP5981		2N6490
NSP2011		TIP42C	NSP5982		BD912
NSP2021		TIP41B	NSP5983		2N6487
NSP2090		TIP125	NSP5984		2N6487
NSP2091		TIP125	NSP5985		2N6488
NSP2092		TIP126	PMD10K-40		2N6059
NSP2093		TIP126	PMD10K-60		2N6059
NSP2100		TIP120	PMD10K-100		2N6059
NSP2101		TIP120	PMD11K-40		BDX88C
NSP2102		TIP121	PMD11K-60		BDX88C
NSP2103		TIP121	PMD11K-100		BDX88C
NSP2370		TIP32B	PMD12K-30		MJ3001
NSP2480		TIP31C	PMD12K-40		MJ3001
NSP2481		TIP31C	PMD12K-60		MJ3001
NSP2490		TIP32B	PMD12K-100		2N6059
NSP2491		TIP32B	PMD13K-40		MJ2501
NSP2520		TIP31C	PMD13K-60		MJ2501
NSP2955		MJE2955T	PMD13K-80		MJ2501
NSP3054		TIP31C	PMD13K-100		BDX88C
NSP3055		MJE3055T	PMD1600K		2N6284
NSP4919		TIP32B	PMD1601K		2N6284
NSP4920		TIP32B	PMD1602K		2N6284
NSP4921		TIP31C	PMD1603K		2N6284

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
PMD16K -40		2N6284	RCA41A		TIP41B
PMD16K-60		2N6284	RCA41B		TIP41B
PMD16K-100		2N6284	RCA41C		TIP41C
PMD1700K		2N6287	RCA42		TIP42C
PMD1701K		2N6287	RCA42A		TIP42C
PMD1702K		2N6287	RCA42B		TIP42C
PMD1703K		2N6287	RCA42C		TIP42C
PMD17K-40		2N6287	RCA120		TIP120
PMD17K-60		2N6284	RCA121		TIP121
PMD17K-80		2N6287	RCA122		TIP122
PMD17K-100		2N6287	RCA125		TIP125
RCA1C05		TIP41B	RCA126		TIP126
RCA1C06		TIP42C	RCA1000		MJ3001
RCA1C07		MJE3055T	RCA1001		MJ3001
RCA1C08		MJE2955T	RCA3054		TIP31C
RCA1C09		MJE3055T	RCA3055		2N6487
RCA1C10		BD243B	RCA8203		TIP107
RCA1C11		2N6107	RCA8350		MJ2501
RCA1C14		BD243B	RCA8767		2N6547
RCA1C15		2N6388	RCA8767A		2N6547
RCA1C16		BDX54B	RCA8767B		2N6547
RCA29		TIP31C	RCA9113		2N6547
RCA29A		TIP31C	RCA91136		2N6547
RCA29B		TIP31C	RCA9113A		2N6547
RCA29C		TIP31C	RCA11203A		BDX54B
RCA30		TIP32B	RCP111A		MJE340
RCA30A		TIP32B	RCP111C		MJE340
RCA30B		TIP32B	RCP111D		MJE340
RCA30C		TIP32C	RCP113A		MJE340
RCA31		TIP31C	RCP113B		MJE340
RCA31A		TIP31C	RCP113C		MJE340
RCA31B		TIP31C	RCP113D		MJE340
RCA31C		TIP31C	RCP115B		MJE340
RCA32		TIP32B	RCP117B		MJE340
RCA32A		TIP32B	RCP131C		MJE340
RCA32B		TIP32B	RCP131D		MJE340
RCA32C		TIP32C	RCP133C		MJE340
RCA41		TIP41B	RCP133D		MJE340

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	
RCP135	S2000AFI	BD237	SDT425		BUX48A	
RCP135B		MJE340	SDT1056		BUX48A	
RCP137		BD237	SDT1057		BUX48A	
RCP137B		MJE340	SDT1058		BUX48A	
RCS617		BDW51C	SDT1059		BUX48A	
RCS618		BDW52C	SDT1061		BUX48A	
S2000AF		S2000AFI	S2000AFI		SDT1062	BUX48A
S2000AFI					SDT1064	BUX48A
S2000FI			S2000AFI		SDT3401	2N5339
S2000N			S2000AFI		SDT3402	2N5339
S2055AF			THD218DHI		SDT3403	2N5339
S2055N			THD218DHI		SDT3405	2N5339
SDD13000			BUL128		SDT3406	2N5339
SDM6000			BU931		SDT3407	2N5339
SDM6001			BU931		SDT3408	2N5339
SDM6002			BU931		SDT3421	2N5339
SDM6003			BU931		SDT3422	2N5339
SDM20301			2N6284		SDT3423	2N5339
SDM20302			2N6284		SDT3424	2N5339
SDM20303			2N6284		SDT3425	2N5339
SDM20304			2N6287		SDT3426	2N5339
SDM20311			2N6284		SDT3427	2N5339
SDM20312			2N6284		SDT3428	2N5339
SDM20313			2N6284		SDT3501	BSS44
SDM20314			2N6287		SDT3502	BSS44
SDM20321			2N6284		SDT3506	BSS44
SDM20322			2N6284		SDT3776	BSS44
SDM20323			2N6284		SDT4451	2N5339
SDM20324			2N6287		SDT4452	2N5339
SDM21301			2N6287		SDT4453	2N5339
SDM21302			2N6287		SDT4454	2N5339
SDM21303			2N6287		SDT4455	2N5339
SDM21304			2N6287		SDT4456	2N5339
SDM21311			2N6287		SDT4483	2N5339
SDM21312			2N6287		SDT5101	TIP41B
SDM21313			2N6287		SDT5102	TIP41B
SDM21314			2N6287		SDT5103	TIP41B
SDN1020			MJ3001		SDT5111	TIP42C

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
SDT5112		TIP42C	SDT7732		BDW51C
SDT5113		TIP42C	SDT7733		BDW51C
SDT5501		2N5339	SDT9201		2N3055
SDT5502		2N5339	SDT9205		2N3055
SDT5503		2N5339	SDT9206		2N3055
SDT5504		2N5339	SDT9209		BUV50
SDT5506		2N5339	SDT9210		2N3055
SDT5506		2N5339	SDT9307		BDW51C
SDT5507		2N5339	SDT9308		BDW51C
SDT5509		2N5339	SDT9309		BDW51C
SDT5511		2N5339	SDT9701		2N5886
SDT5512		2N5339	SDT9704		2N5682
SDT5513		2N5339	SDT9707		2N3055
SDT5514		2N5339	SDT12301		2N5038
SDT6306		2N5339	SDT12302		2N5339
SDT6309		2N5339	SDT12303		2N5339
SDT6310		2N5339	SDT12305		2N5339
SDT6311		2N5339	SDT12306		2N5339
SDT6312		2N5339	SDT12307		2N5339
SDT6313		2N5339	SDT13301		2N6547
SDT6314		2N5339	SDT13302		2N6547
SDT6315		2N5339	SDT13303		2N6547
SDT6316		2N5339	SDT13305		BUX48
SDT6408		2N5339	SE9300		BDW93B
SDT6409		2N5339	SE9301		BDW93B
SDT6410		2N5339	SE9302		BDW93C
SDT6411		2N5339	SE9303		BDX87C
SDT6412		2N5339	SE9304		BDX87C
SDT6413		2N5339	SE9305		BDX87C
SDT6414		2N5339	SE9306		2N6287
SDT6415		2N5339	SE9307		2N6284
SDT6416		2N5339	SE9308		2N6287
SDT7603		BUX10	SE9400		BDW94B
SDT7604		BUX10	SE9401		BDW94B
SDT7609		BUX10	SE9402		BDW94C
SDT7610		BUX10	SE9403		BDX88C
SDT7612		BUX98A	SE9404		BDX88C
SDT7731		BDW51C	SE9405		BDX88C

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
SGS110		MJD112T4	SGSIF443		BUV48AFI
SGS111		MJD112T4	SGSIF444		BUH515
SGS112		MJD112T4	SGSIF445		BUH515
SGS115		SGS125	SGSIF461	SGSIF461	
SGS121		MJD122T4	SGSIF463		SGSIF461
SGS122		MJD122T4	SGSIF464		THD200FI
SGS125	SGS125		SGSIF465		THD200FI
SGS3439		MJE3440	ST901T	ST901T	
SGS3440		MJE3440	ST931ZT	ST931ZT	
SGS13003		ST13003	ST13003	ST13003	
SGS13007		BUL67	ST13005	ST13005	
SGSD100	SGSD100		ST13007	ST13007	
SGSD200	SGSD200		STD909T4	STD909T4	
SGSF313		BUL310	STD910T4	STD910T4	
SGSF313PI	SGSF313PI		STF6045DV		ESM6045DV
SGSF321		BUL310	STF8045AV		ESM6045AV
SGSF323		BUL310	SVT100-5C		BDW51C
SGSF324	SGSF324		SVT350-3		BUX48A
SGSF341		MJE13007A	SVT400-3		BUX48A
SGSF343		BUL510	SVT400-5C		BUX48A
SGSF344	SGSF344		SVT450-3		BUX48A
SGSF441		BUL810	SVT450-3C		BUX48
SGSF443		THD215HI	SVT7525		BUX48
SGSF444		THD215HI	SVT9522		BUX48
SGSF445		THD215HI	TD13004		BULD128D-1
SGSF461		BUL810	TD13005		BULD128D-1
SGSF463		BUL810	TE13005D		BUL128D
SGSF464		THD215HI	TE13007		ST13007
SGSF465		THD215HI	TE13009		BUL87
SGSF561		BUX48A	THD200FI	THD200FI	
SGSF562		BUF420M	THD215HI	THD215HI	
SGSF661		BUX98A	THD218DHI	THD218DHI	
SGSF663		BUX98A	THD277HI	THD277HI	
SGSF664		BUX98C	THD300		BUH1015
SGSF665		BUX98C	THD400		BUH1215
SGSIF344	SGSIF344		TIP29		TIP29A
SGSIF345		SGSIF344	TIP29A	TIP29A	
SGSIF441		BUV48AFI	TIP29B		TIP29C

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
TIP29C	TIP29C		TIP48	TIP48	
TIP30		TIP30A	TIP49	TIP49	
TIP30A	TIP30A		TIP50	TIP50	
TIP30B		TIP30C	TIP54		BU426A
TIP30C	TIP30C		TIP61		TIP31C
TIP31		TIP31A	TIP61A		TIP31C
TIP31A	TIP31A		TIP61B		TIP31C
TIP31B		TIP31C	TIP61C		TIP31C
TIP31C	TIP31C		TIP62		TIP32C
TIP32		TIP32A	TIP62A		TIP32C
TIP32A	TIP32A		TIP62B		TIP32C
TIP32B	TIP32B		TIP62C		TIP32C
TIP32C	TIP32C		TIP63		TIP47
TIP33		TIP33C	TIP64		TIP48
TIP33A		TIP33C	TIP73		BD909
TIP33B		TIP33C	TIP73A		BD909
TIP33C	TIP33C		TIP73B		BD909
TIP34		TIP34C	TIP73C		BD911
TIP34A		TIP34C	TIP74		BD910
TIP34B		TIP34C	TIP74A		BD910
TIP34C	TIP34C		TIP74B		BD910
TIP35		TIP35C	TIP74C		BD912
TIP35A		TIP35C	TIP75		ST13005
TIP35B		TIP35C	TIP75A		ST13005
TIP35C	TIP35C		TIP75B		ST13005
TIP36		TIP36B	TIP75C		ST13005
TIP36A		TIP36B	TIP100	TIP100	
TIP36B	TIP36B		TIP101		TIP102
TIP36C	TIP36C		TIP101		TIP102
TIP41		TIP41B	TIP102	TIP102	
TIP41A		TIP41B	TIP105	TIP105	
TIP41B	TIP41B		TIP106		TIP107
TIP41C	TIP41C		TIP107	TIP107	
TIP42		TIP42A	TIP110	TIP110	
TIP42A	TIP42A		TIP111		TIP112
TIP42B		TIP42C	TIP112	TIP112	
TIP42C	TIP42C		TIP115	TIP115	
TIP47	TIP47		TIP116		TIP117

## BIPOLAR TRANSISTORS CROSS REFERENCE

Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred	Industry standard	SGS-THOMSON replacement	SGS-THOMSON nearest preferred
TIP117	TIP117		TIP601		TIP102
TIP120	TIP120		TIP605		TIP107
TIP121	TIP121		TIP606		TIP107
TIP122	TIP122		TIP607		TIP107
TIP125	TIP125		TIP620		TIP120
TIP126	TIP126		TIP621		TIP121
TIP127	TIP127		TIP622		TIP122
TIP130		TIP131	TIP625		TIP125
TIP131	TIP131		TIP626		TIP126
TIP132	TIP132		TIP627		TIP127
TIP135	TIP135		TIP640		MJ3001
TIP136		TIP137	TIP641		MJ3001
TIP137	TIP137		TIP662		BU931
TIP140	TIP140		TIP2955	TIP2955	
TIP140T		TIP142T	TIP2955T		MJE2955T
TIP141	TIP141		TIP3055	TIP3055	
TIP141T		TIP142T	TIP3055T		MJE3055T
TIP142	TIP142		TIPL763		BUV48A
TIP142T	TIP142T		TIPL763A		BUV48A
TIP145	TIP145		TIPL765		BUV48A
TIP145T		TIP107	TIPL765A		BUV48A
TIP146		TIP147	TIPL760		BUL128
TIP147	TIP147		TIPL760A		BUL310
TIP147T	TIP147T		TIPL761		BUL810
TIP150		BU931T	TIPL761A		BUL810
TIP151		BU931T	TIPL762		BUL810
TIP152		BU931T	TIPL762A		BUL810
TIP510		BUV21	TIPL770		BUL138
TIP512		BUV21	TIPL790		BDX53F
TIP517		BUX10	TIPL790A		BDX53F
TIP525		BUV21	TIPL791		BUL310
TIP526		BUV21	TIPL791A		BUL310
TIP545		MJ2955	TIPL13004		BUL138
TIP546		MJ2955	TIPL13005		BUL138
TIP551		BU208A			
TIP552		BU208A			
TIP553		BU208A			
TIP600		TIP102			