

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2N3016		2N5339	2N3864		BDW51C
2N3021		BDW52C	2N3865		BUV50
2N3022		BDW52C	2N3868		BSS44
2N3023		BDW52C	2N3902		BUX48A
2N3024		BDW52C	2N3996		2N5339
2N3025		BDW52C	2N3997		2N5339
2N3026		BDW52C	2N3999		2N5339
2N3055	2N3055		2N4000		2N5339
2N3076		BUX98	2N4001		2N5339
2N3171		BDW52C	2N4002		BUV20
2N3172		BDW52C	2N4111		BDW51C
2N3173		BDW52C	2N4113		BDW51C
2N3174		TIP2955	2N4115		2N5339
2N3183		BDW52C	2N4116		2N5339
2N3184		BDW52C	2N4300		2N5339
2N3185		BDW52C	2N4301		2N5339
2N3186		TIP2955	2N4305		2N5339
2N3195		BDW52C	2N4307		2N5339
2N3196		BDW52C	2N4309		2N5339
2N3198		MJ2955	2N4311		2N5339
2N3202		BSS44	2N4314		BSS44
2N3203		BSS44	2N4398		2N5884
2N3232		BDW51C	2N4399		2N5884
2N3233		BDW51C	2N4877		2N5339
2N3235		2N3055	2N4895		BFX34
2N3236		BDW51C	2N4897		BFX34
2N3238		BDW51C	2N4901		MJ2955
2N3239		BDW51C	2N4902		MJ2955
2N3240		BUX10	2N4903		MJ2955
2N3419		2N5339	2N4904		MJ2955
2N3420		2N5339	2N4905		MJ2955
2N3421		2N5339	2N4906		MJ2955
2N3439	2N3439		2N4907		BDW52C
2N3440	2N3440		2N4908		BDW52C
2N3445		BDW51C	2N4909		BDW52C
2N3446		BDW51C	2N4913		BDW51C
2N3447		BDW51C	2N4914		BDW51C
2N3448		BDW51C	2N4915		BDW51C
2N3667		BDW51C	2N4918		2N4920
2N3713		BDW51C	2N4919		2N4920
2N3715		BDW51C	2N4920	2N4920	
2N3716		BDW51C	2N4921		BD235
2N3719		BSS44	2N4922		BD235
2N3720		BSS44	2N4923		BD237
2N3771	2N3771		2N4998		2N5339
2N3772	2N3772		2N5000		2N5339
2N3789		BDW52C	2N5002		2N5339
2N3790		BDW52C	2N5004		2N5339
2N3791		BDW52C	2N5034		2N3055
2N3792		BDW52C	2N5035		2N3055
2N3863		BDW51C	2N5036		2N3055

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INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2N5037		2N3055	2N5477		2N5339
2N5038	2N5038		2N5478		2N5339
2N5039		2N5038	2N5479		2N5339
2N5068		BDW51C	2N5480		2N5339
2N5069		BDW51C	2N5490		MJE3055T
2N5083		2N5339	2N5491		MJE3055T
2N5085		2N5339	2N5492		BD707
2N5148		2N5339	2N5493		BD243B
2N5150		2N5339	2N5494		BD707
2N5152		2N5339	2N5495		MJE3055T
2N5153	2N5153	BSS44	2N5496		BD709
2N5154	2N5154		2N5497		BD243B
2N5157		BUX48A	2N5559		BUV50
2N5190		2N5191	2N5614		BDW51C
2N5191	2N5191		2N5616		BDW51C
2N5192	2N5192		2N5618		BDW51C
2N5193	2N5193		2N5629		MJ802
2N5194		2N5195	2N5632		BDW51C
2N5195	2N5195		2N5633		BUV50
2N5240		BUX48A	2N5634		BUV50
2N5241		BUX48A	2N5655		2N5657
2N5264		BUX98	2N5656		2N5657
2N5284		2N5339	2N5657	2N5657	
2N5285		2N5339	2N5671		BUV50
2N5293		TIP31C	2N5672		BUV50
2N5294		TIP31C	2N5679		2N5680
2N5295		TIP31C	2N5680	2N5680	
2N5297		TIP31C	2N5681	2N5681	
2N5298		TIP31C	2N5682	2N5682	
2N5298		TIP31C	2N5729		2N5339
2N5301		2N5886	2N5734		BUX10
2N5302		2N5886	2N5738		BDW52C
2N5303		2N5886	2N5740		BDW52C
2N5333		BSS44	2N5743		2N5884
2N5334		2N5339	2N5744		MJ4502
2N5335		BUY48	2N5758		BDW51C
2N5336		2N5339	2N5781		BSS44
2N5337		2N5339	2N5782		BSS44
2N5338		2N5339	2N5783		BSS44
2N5339	2N5339		2N5784		2N5339
2N5346		2N5339	2N5785		2N5339
2N5347		2N5339	2N5867		BDW52C
2N5348		2N5339	2N5868		BDW52C
2N5349		2N5339	2N5869		BDW51C
2N5386		2N5038	2N5870		BDW51C
2N5387		2N6547	2N5871		BDW52C
2N5388		2N6547	2N5872		BDW52C
2N5389		2N6547	2N5873		BDW51C
2N5415	2N5415		2N5874		BDW51C
2N5416	2N5416		2N5875		BDW52C
2N5466		BUX48A	2N5876		BDW52C
2N5467		BUX48A	2N5879		BDW52C

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INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2N5880		BDW52C	2N6057		2N6059
2N5881		BDW51C	2N6058		2N6059
2N5882		BDW51C	2N6059	2N6059	
2N5883		2N5884	2N6098		2N6487
2N5884	2N5884		2N6099		2N6487
2N5885		2N5886	2N6100		2N6487
2N5886	2N5886		2N6101		2N6488
2N5929		BUX10	2N6102		2N6488
2N5930		BUX10	2N6103		2N6487
2N5932		BUX10	2N6106		2N6107
2N5933		BUX10	2N6107	2N6107	
2N5936		BUX10	2N6108		2N6107
2N5970		BDW51C	2N6109	2N6109	2N6107
2N5971		BDW51C	2N6110		2N6107
2N5973		2N5886	2N6111	2N6111	
2N5974		MJE2955T	2N6121		BD243B
2N5975		MJE2955T	2N6122		TIP31C
2N5976		MJE2955T	2N6123		BD243B
2N5977		MJE3055T	2N6124		BD244B
2N5978		MJE3055T	2N6125		TIP32B
2N5979		MJE3055T	2N6126		BD244B
2N5980		MJE2955T	2N6128		BUX10
2N5981		MJE2955T	2N6129		TIP41B
2N5982		2N6490	2N6130		TIP41B
2N5983		MJE3055T	2N6131		TIP41B
2N5984		MJE3055T	2N6132		TIP42C
2N5985		TIP33C	2N6133		TIP42C
2N5986		2N6490	2N6134		TIP42C
2N5987		2N6490	2N6177		MJE340
2N5990		TIP33C	2N6226		BDW52C
2N5991		TIP33C	2N6227		MJ2955
2N6021		TIP32C	2N6228		MJ2955
2N6022		TIP32C	2N6229		BDW52C
2N6023		TIP32B	2N6242		BUX80
2N6024		TIP32B	2N6243		BUX48
2N6025		TIP32B	2N6244		BUX98
2N6026		TIP32B	2N6245		BUX48
2N6032		BUV20	2N6246		BDW52C
2N6033		BUV21	2N6247		BDW52C
2N6034		2N6036	2N6248		MJ2955
2N6035		2N6036	2N6249		BUX41
2N6036	2N6036		2N6250		BUX41
2N6037		2N6039	2N6251		BUX48
2N6038		2N6039	2N6257		2N5886
2N6039	2N6039	BD681	2N6258		2N5886
2N6042		TIP107	2N6270		BUX10
2N6045		TIP102	2N6271		BUX10
2N6050	2N6050		2N6273		BUX10
2N6051		BDX88C	2N6274		BUV20
2N6052		BDX88C	2N6275		BUV20
2N6053		2N6050	2N6276		BUV21
2N6055		MJ3001	2N6277		BUV21

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INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2N6278		BUV20	2N6475		BD712
2N6279		BUV20	2N6486		2N6487
2N6280		BUV20	2N6487	2N6487	
2N6281		BUV21	2N6488	2N6488	
2N6282	2N6282	2N6284	2N6489	2N6489	
2N6283		2N6284	2N6490	2N6490	
2N6284	2N6284		2N6491		BD912
2N6285		2N6287	2N6496		BUX10
2N6286		2N6287	2N6499		ST13005
2N6287	2N6287		2N6511		BUX80
2N6288		BD243B	2N6512		BUX80
2N6289		BD243B	2N6513		BUX80
2N6290		BD243B	2N6514		BUX80
2N6291		BD243B	2N6530		TIP102
2N6292		BD243B	2N6530		TIP102
2N6293		BD243B	2N6531		BDX53C
2N6306		BUX80	2N6532		BDX53C
2N6307		BUY69A	2N6535		TIP102
2N6308		BUY69A	2N6535		TIP102
2N6329		2N5884	2N6536		TIP102
2N6330		2N5884	2N6536		TIP102
2N6331		2N5884	2N6544		BUX48A
2N6338		BUX10	2N6545		BUX80
2N6339		BUX10	2N6546		2N6547
2N6354		BUX10	2N6547	2N6547	
2N6355		2N6059	2N6548		MJE802
2N6356		2N6059	2N6549		MJE802
2N6357		2N6059	2N6551		BD237
2N6358		2N6059	2N6552		BD237
2N6359		2N5886	2N6553		BD237
2N6371		2N3055	2N6554		2N4920
2N6383		MJ3001	2N6556		2N4920
2N6384		BDX87B	2N6557		MJE340
2N6385		MJ3001	2N6558		MJE340
2N6386		2N6388	2N6559		MJE340
2N6387		2N6388	2N6569		BDW51C
2N6388	2N6388		2N6573		2N6547
2N6406		MJE172	2N6574		2N6547
2N6407		MJE172	2N6575		BUX48
2N6408		MJE182	2N6576		2N6577
2N6409		MJE182	2N6577	2N6577	
2N6410		BD435	2N6594		BDW52C
2N6411		MJE210	2N6648		BDX88C
2N6412		MJE182	2N6649		BDX88C
2N6413		MJE182	2N6666		BDX54B
2N6414		MJE172	2N6667		BDX54B
2N6415		MJE172	2N6668	2N6668	
2N6469		BDW52C	2N6673		BUX80
2N6470		BDW51C	2N6675		BUX48A
2N6471		BDW51C	2N6676		BUF420M
2N6472		BDW51C	2N6677		BUF420M
2N6473		BD711	2N6678		BUF420M

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2N6702		BUV26	2SA816		TIP30C
2SA489		BD242B	2SA818		MJE350
2SA490		BD242A	2SA835		MJE350
2SA496		2N4920	2SA837		BDW52C
2SA505		2N4920	2SA839		TIP32C
2SA623		2N4920	2SA877		BDW52C
2SA624		2N4920	2SA885		BD438
2SA626		BDW52C	2SA886		BD438
2SA627		BDW52C	2SA887		BD242B
2SA633		2N4920	2SA898		MJE350
2SA634		2N4920	2SA899		MJE350
2SA635		2N4920	2SA900		MJE210
2SA636		2N4920	2SA907		MJ2955
2SA645		MJE182	2SA922		2N4920
2SA646		2N4920	2SA939		MJE350
2SA647		2N4920	2SA963		MJE172
2SA656		MJ2955	2SA966		TIP32A
2SA657		BDW52C	2SA980		BDW52C
2SA658		BDW52C	2SA1008		TIP32C
2SA663		BDW52C	2SA1010		TIP42C
2SA670		TIP32B	2SA1012		TIP42A
2SA671		BD242A	2SA1020		TIP32A
2SA679		MJ2955	2SA1045		BDX88C
2SA680		BDW52C	2SA1046		BDX88C
2SA682		BD238	2SA1063		MJ2955
2SA696		MJE350	2SA1069		TIP42B
2SA699		TIP30A	2SA1110		MJE350
2SA699A		TIP30A	2SA1307		TIP42B
2SA700		TIP30A	2SA1326		2N6490
2SA703		2N4920	2SA1329		BD912
2SA714		MJ2955	2SA1357		TIP42B
2SA715		MJE172	2SB434		BD244B
2SA738		MJE172	2SB435		BD244B
2SA743		BD238	2SB506		MJ2955
2SA748		BD242B	2SB507		BD242A
2SA755		BD242B	2SB509		BD244B
2SA756		BDW52C	2SB511		TIP32A
2SA757		MJ2955	2SB513		BD244B
2SA758		MJ2955	2SB514		TIP32A
2SA768		BD242A	2SB515		TIP32A
2SA769		BD242B	2SB518		BDW52C
2SA770		2N6107	2SB520		MJ2955
2SA771		2N6107	2SB521		TIP42A
2SA775		TIP30C	2SB522		TIP42A
2SA779		BD438	2SB523		2N5193
2SA780		BD440	2SB524		2N5195
2SA780A		BD442	2SB526		MJE350
2SA795		MJE350	2SB527		MJE350
2SA807		BDW52C	2SB528		MJE350
2SA808		BDW52C	2SB529		2N5193
2SA814		TIP32C	2SB531		BDW52C
2SA815		TIP30C	2SB532		BDW52C

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INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2SB536		MJE350	2SB693		2N6287
2SB537		TIP32C	2SB694		2N6287
2SB548		2N4920	2SB696		MJE5852
2SB549		2N4920	2SB697		MJE5852
2SB553		TIP42B	2SB706		2N6107
2SB558		BDW52C	2SB707		2N6107
2SB559		2N4920	2SB708		2N6107
2SB565		BD708	2SB712		TIP107
2SB566		BD708	2SB713		MJE5852
2SB566A		BD708	2SB717		MJE5852
2SB569		BD678	2SB718		MJE5852
2SB570		BD678	2SB722		MJE5852
2SB571		BD680	2SB724		TIP32A
2SB572		2N5193	2SB743		MJE172
2SB573		2N5195	2SB744		MJE172
2SB574		2N5195	2SB750		TIP115
2SB575		2N5193	2SB751		BDX54B
2SB576		2N5195	2SB753		BD912
2SB577		2N5195	2SB754		TIP36B
2SB578		MJE2955T	2SB772		MJE172
2SB579		MJE2955T	2SB833		MJ11013
2SB580		MJE2955T	2SB834		TIP32A
2SB581		MJE2955T	2SB855		TIP32A
2SB585		2N6050	2SB856		TIP32A
2SB587		2N6050	2SB941		TIP32A
2SB588		BDX88C	2SB1020		TIP107
2SB589		BDX88C	2SB1024		TIP127
2SB595		BD712	2SC407		BUX41
2SB596		BD244B	2SC408		BUX41
2SB604		BD244B	2SC409		BUX41
2SB631		2N4920	2SC410		BUX41
2SB632		BD436	2SC411		2N6547
2SB633		TIP42C	2SC412		2N6547
2SB638		BDX88C	2SC431		BUX22
2SB639		BDX88C	2SC432		BUX22
2SB648		MJE350	2SC433		BUX22
2SB649		MJE350	2SC434		BUX22
2SB653		MJ2955	2SC436		MJ10005
2SB654		MJ2955	2SC495		BD237
2SB655		MJE5852	2SC496		BD235
2SB668		TIP32A	2SC503		2N5339
2SB669		TIP32B	2SC504		2N5339
2SB673		BDW94C	2SC510		2N5339
2SB674		BDW94B	2SC518		BDW51C
2SB675		BDW94B	2SC518A		BDW51C
2SB676		TIP127	2SC520		BDW51C
2SB677		TIP125	2SC520A		BDW51C
2SB679		TIP117	2SC521A		BDW51C
2SB681		MJE5852	2SC558		BU326A
2SB686		TIP36C	2SC642		BU208A
2SB689		TIP42C	2SC646		2N3055
2SB690		TIP42C	2SC647		BDW51C

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2SC664		BDW51C	2SC1107		BD243B
2SC675		BUX80	2SC1108		BD243C
2SC676		BUX80	2SC1109		BD243B
2SC677		BUX80	2SC1110		BD243C
2SC678		BUX80	2SC1111		BUV50
2SC681		BUX80	2SC1114		BU326A
2SC758		BUX80	2SC1115		BUV50
2SC759		BUX80	2SC1116		BUX41
2SC760		BUX80	2SC1130		BU326A
2SC768		2N3055	2SC1131		BU326A
2SC769		BUV50	2SC1132		BU208A
2SC770		BUX41	2SC1133		BU208A
2SC771		BUX41	2SC1140		BUX48
2SC789		TIP31C	2SC1141		BUX48
2SC790		TIP31A	2SC1142		BUY69A
2SC791		TIP31C	2SC1143		BUY69A
2SC793		BDW51C	2SC1151		BU208A
2SC794		BDW51C	2SC1153		BU208A
2SC861		BU326A	2SC1154		BU208A
2SC862		BUX48A	2SC1155		MJE182
2SC885		BU326A	2SC1157		BD237
2SC886		BU326A	2SC1162		MJE182
2SC887		BU326A	2SC1167		BU208A
2SC901		BU326A	2SC1170		BU208A
2SC901A		BU326A	2SC1170A		BU208A
2SC902		BU326A	2SC1171		BU208A
2SC931		BD241A	2SC1172		BU208A
2SC932		BD241A	2SC1173		TIP31A
2SC935		BUX80	2SC1174		BU208A
2SC936		BU208A	2SC1174		BU208A
2SC937		BU208A	2SC1184		BU208A
2SC939		BU326A	2SC1185		BU326A
2SC940		BU326A	2SC1212		BD235
2SC962		BDW51C	2SC1212A		BD237
2SC999		BU208A	2SC1226		TIP31A
2SC1004		BU208A	2SC1226A		TIP31A
2SC1004A		BU208A	2SC1227		BUX80
2SC1005		BU208A	2SC1228		BUX80
2SC1034		BU208A	2SC1229		BUX80
2SC1060		TIP31A	2SC1230		BUX80
2SC1061		TIP31A	2SC1237		TIP31C
2SC1078		BU208A	2SC1243		MJE802
2SC1080		BDW51C	2SC1292		BU326A
2SC1086		BU208A	2SC1295		BU208A
2SC1088		2N5657	2SC1295		BU208A
2SC1089		2N5657	2SC1308		BU208A
2SC1096		MJE182	2SC1309		BU208A
2SC1098		BD237	2SC1316		BUX80
2SC1099		BU208A	2SC1322		BUX98
2SC1100		BU208A	2SC1325		BU208A
2SC1101		BU208A	2SC1343		BUX41
2SC1106		BU326A	2SC1348		BU208A
			2SC1358		BU208A

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2SC1367		BU208A	2SC1669		TIP47
2SC1368		MJE182	2SC1683		TIP47
2SC1381		MJE182	2SC1722		TIP48
2SC1382		MJE182	2SC1723		TIP48
2SC1398		BD241B	2SC1749		MJE340
2SC1402		BUV50	2SC1768		BU931
2SC1403		BUV50	2SC1777		2N3055
2SC1409		TIP47	2SC1782		BUV50
2SC1410		TIP47	2SC1783		BUX98
2SC1413		BU208A	2SC1784		BUV50
2SC1418		TIP31A	2SC1785		BUX41
2SC1419		TIP31A	2SC1786		BUX41
2SC1434		2N6547	2SC1826		TIP41B
2SC1436		BUX98	2SC1827		TIP41C
2SC1440		BUX98	2SC1829		BU931
2SC1441		BUX98	2SC1832		BU931
2SC1447		TIP47	2SC1846		MJE182
2SC1448		TIP47	2SC1847		MJE182
2SC1449		MJE182	2SC1848		BD241B
2SC1454		BU326A	2SC1869		BUV50
2SC1463		BU326A	2SC1870		2N6547
2SC1467		BUX80	2SC1875		BU208A
2SC1468		BUX80	2SC1880		TIP112
2SC1469		BUX80	2SC1881		TIP110
2SC1477		BUX80	2SC1883		TIP122
2SC1501		2N5657	2SC1891		BU208A
2SC1504		BUX80	2SC1892		BU208A
2SC1505		TIP48	2SC1893		BU208A
2SC1506		TIP48	2SC1894		BU208A
2SC1507		TIP48	2SC1922		BU208A
2SC1514		2N5657	2SC1929		TIP48
2SC1516		BD437	2SC1942		BU208A
2SC1517		BD439	2SC1944		TIP112
2SC1517A		BD441	2SC1945		TIP41B
2SC1519		MJE340	2SC1983		TIP112
2SC1520		MJE340	2SC1984		TIP112
2SC1521		MJE340	2SC1985		TIP41B
2SC1565		MJE340	2SC1986		TIP41C
2SC1576		BUX80	2SC2024		BD237
2SC1577		BUX80	2SC2027		BU208A
2SC1578		BUY69A	2SC2068		MJE340
2SC1580		BUX48	2SC2071		MJE3440
2SC1584		BUX41	2SC2073		TIP47
2SC1585		BUX41	2SC2080		MJE182
2SC1586		BUX41	2SC2127		BUX41
2SC1617		BU326A	2SC2189		BUX80
2SC1618		BDW51C	2SC2190		BUX80
2SC1619		BDW51C	2SC2191		2N6547
2SC1625		TIP29C	2SC2209		MJE182
2SC1626		TIP29C	2SC2229		TIP47
2SC1629		MJ3001	2SC2230		TIP47
2SC1667		BDW51C	2SC2235		TIP47



## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2SC2236		TIP31A	2SC3420		TIP41B
2SC2238		TIP47	2SC3421		TIP47
2SC2238A		TIP47	2SC3657		BU508A
2SC2238B		TIP47	2SC3783		BU508A
2SC2244		BUX80	2SC3795		BUL138
2SC2246		2N6547	2SC3832		BUL128
2SC2248		BUX80	2SC3868		BULT118
2SC2256		BUX41	2SC3886		BUH1015HI
2SC2260		BUX41	2SC3886A		BUH1015HI
2SC2261		BUX41	2SC3892		THD200FI or
2SC2262		BUX41			THD215HI
2SC2270		2N5195	2SC3892A		THD200FI or
2SC2298		MJE182			THD215HI
2SC2311		BD235	2SC3970A		BULT118
2SC2321		BUV50	2SC3996		BUH1215
2SC2322		2N3055	2SC3997		BUH1215
2SC2324		BD681	2SC4051		BUL128
2SC2333		ST13005	2SC4053		BUL138
2SC2335		ST13007	2SC4054		BUL138
2SC2337		BUV50	2SC4055		BUL57
2SC2344		TIP47	2SC4106		BUL128
2SC2356		2N6547	2SC4107		BUL57
2SC2371		2N5657	2SC4123		BUH615D
2SC2373		ST13007	2SC4229A		BUH1215
2SC2397		MJE3055T	2SC4233		BUL216
2SC2402		2N6547	2SC4235		2N6059
2SC2428		BUX41	2SC4236		2N6059
2SC2431		2N3055	2SC4242		BUL138
2SC2432		BDW51C	2SC4288A		BUH1215
2SC2433		MJ11016	2SC4290A		BUH1215
2SC2435		2N6059	2SC4533		BULT118
2SC2436		2N6059	2SC4744		BUH615D
2SC2487		BUV50	2SC4747		BUH1215
2SC2488		BUV50	2SC4757		THD219HI
2SC2489		BUV50	2SC4759		BUH1015HI
2SC2492		BUV50	2SC4762		BUH615D
2SC2493		BUV50	2SC4769		BUH615D
2SC2500		TIP31A	2SC4770		THD200FI or
2SC2534		ST13003			THD215HI
2SC2535		ST13005	2SC4774		BUH1015HI
2SC2536		ST13005	2SC4916		THD218DHI
2SC2552		ST13005	2SC4923		BUH1015HI
2SC2553		ST13007	2SC4924		BUH1015HI
2SC2562		TIP41A	2SC4927		THD200FI or
2SC2793		BU508A			THD215HI
2SC2914		BUX80	2SC4977		BUL57
2SC3257		MJE13009	2SC5002		THD200FI or
2SC3294		TIP41B			THD215HI
2SC3306		MJE13009	2SC5021		BUL128
2SC3310		BUL381 / 2	2SC5022		BUH2M20AP
2SC3346		MJE13009	2SC5023		BUL138
2SC3419		TIP31C			

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2SC5048		THD200FI or THD215HI	2SD165		BUV50
2SC5129		THD200FI or THD215HI	2SD166		BUX41
2SC5144		BUH1215	2SD168		BDX87C
2SC5148		THD200FI or THD215HI	2SD173		BDW51C
2SC5207		THD200FI or THD215HI	2SD175		BDW51C
2SC5250		THD200FI or THD215HI	2SD176		BDW51C
2SC5251		THD200FI or THD215HI	2SD177		BUV50
2SC5299		THD200FI or THD215HI	2SD180		BDW51C
2SC5332		BUH1015	2SD181		BUV50
2SD12		BDW51C	2SD188		BDW51C
2SD15		BDW51C	2SD189		BDW51C
2SD16		BDW51C	2SD189A		BDW51C
2SD18		BUX41	2SD199		BU208A
2SD26		BDW51C	2SD200		BU208A
2SD26A		BDW51C	2SD201		BDW51C
2SD26B		BDW51C	2SD207		BDW51C
2SD41		BDW51C	2SD208		BUV50
2SD47		BDW51C	2SD212		BDW51C
2SD50		BDW51C	2SD213		BUV50
2SD51		BDW51C	2SD214		BUV50
2SD52		BDW51C	2SD217		BUV50
2SD68		BDW51C	2SD218		BUV50
2SD73		BDW51C	2SD231		2N5886
2SD80		BDW51C	2SD232		BUV20
2SD81		BDW51C	2SD233		TIP31C
2SD82		BDW51C	2SD234		TIP31A
2SD84		BUX41	2SD235		TIP31A
2SD88		BDW51C	2SD246		BU208A
2SD107		MJ3001	2SD247		BDW51C
2SD108		MJ3001	2SD249		2N5886
2SD110		BUV50	2SD260		BDW51C
2SD111		BDW51C	2SD262		2N6547
2SD113		MJ802	2SD265		BUX80
2SD114		2N5886	2SD266		BUX80
2SD116		BDW51C	2SD271		ST13005
2SD119		BDW51C	2SD272		ST13005
2SD124		BDW51C	2SD273		BUX80
2SD124A		BDW51C	2SD274		BUX80
2SD125		BDW51C	2SD286		BUX41
2SD125A		BDW51C	2SD286		BUX41
2SD131		BDW51C	2SD287		BUX41
2SD133		BUX10	2SD288		TIP31C
2SD151		BDW51C	2SD289		TIP31C
2SD161		BUV50	2SD293		2N6547
2SD163		BDW51C	2SD294		2N6547
			2SD295		BUX48
			2SD296		BUX48
			2SD299		BU208A
			2SD300		BU208A
			2SD301		BDX87C
			2SD310		2N6547
			2SD311		2N6547

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2SD313		TIP31A	2SD422		ST13005
2SD314		TIP31A	2SD423		ST13005
2SD316		BDW51C	2SD424		BUV50
2SD317		TIP31A	2SD425		BUV50
2SD318		TIP31A	2SD426		BUV50
2SD319		BUV50	2SD428		BDW51C
2SD321		BUX80	2SD429		2N6547
2SD322		BUX41	2SD431		BUV50
2SD323		BUX41	2SD433		BUX41
2SD325		TIP31A	2SD434		BUX41
2SD330		TIP31A	2SD435		BUX98
2SD331		TIP31A	2SD436		BUX98
2SD335		BDW51C	2SD439		BD235
2SD338		BDW51C	2SD459		TIP121
2SD339		BDW51C	2SD460		TIP122
2SD340		2N3055	2SD473		MJ11016
2SD341		2N3055	2SD475		TIP31C
2SD342		TIP31C	2SD476		BD243B
2SD343		TIP31C	2SD478		TIP47
2SD344		TIP31C	2SD479		BD681
2SD345		TIP31C	2SD480		BD681
2SD346		TIP41A	2SD481		BD681
2SD347		TIP41A	2SD482		2N5657
2SD348		BU208A	2SD483		2N5657
2SD350		BU208A	2SD484		2N5657
2SD351		BUX80	2SD485		2N5191
2SD356		BD237	2SD486		2N5191
2SD357		BD237	2SD487		2N5192
2SD358		BD237	2SD488		BD235
2SD359		2N5191	2SD489		BD235
2SD360		2N5191	2SD490		BD237
2SD361		2N5191	2SD491		MJE3055T
2SD365		TIP31A	2SD492		2N3055
2SD366		TIP31C	2SD493		MJE3055T
2SD366A		TIP31C	2SD494		MJE3055T
2SD368		BU208A	2SD495		MJE3055T
2SD369		BDW51C	2SD498		TIP102
2SD371		BDW51C	2SD498		TIP102
2SD375		BUX41	2SD499		MJE3055T
2SD376		BUX41	2SD500		MJE3055T
2SD377		BUX98	2SD502		MJ3001
2SD379		BDW51C	2SD504		2N6059
2SD380		BU208A	2SD505		2N6059
2SD388		BUX41	2SD505		2N6059
2SD389		TIP31A	2SD506		2N6059
2SD390		TIP31A	2SD517		BU208A
2SD396		2N6547	2SD518		ST13005
2SD401		TIP47	2SD519		BUX80
2SD402		TIP47	2SD522		BDW51C
2SD404		TIP120	2SD523		MJ3001
2SD417		BUX80	2SD524		MJ11014
2SD418		BU208A	2SD525		TIP41C

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2SD526		TIP41B	2SD721		TIP102
2SD531		TIP41C	2SD722		TIP102
2SD539		BUX80	2SD723		TIP31C
2SD544		TIP41C	2SD724		ST13005
2SD549		BD681	2SD725		BU208A
2SD552		BUX41	2SD726		TIP31C
2SD553		TIP41B	2SD729		2N6284
2SD555		BUX80	2SD730		MJ11016
2SD570		BD241B	2SD733		BUV50
2SD574		MJ11016	2SD752		BUV50
2SD575		BU208A	2SD753		BUX98
2SD577		BU208A	2SD757		MJE3440
2SD597		BDW51C	2SD758		MJE3440
2SD600		2N4920	2SD759		TIP47
2SD603		TIP47	2SD760		TIP47
2SD604		BU931	2SD761		TIP47
2SD605		BU931	2SD762		TIP31A
2SD608		TIP47	2SD764		BU208A
2SD610		TIP47	2SD765		BU208A
2SD612		MJE521	2SD768		TIP102
2SD613		TIP41C	2SD783		BU208A
2SD622		ST13005	2SD793		MJE182
2SD626		BU931	2SD794		MJE182
2SD627		BU208A	2SD797		2N5886
2SD628		BDX87C	2SD801		BUX80
2SD629		BDX87C	2SD802		BUX80
2SD630		2N5886	2SD803		2N6059
2SD631		2N5886	2SD811		BUX80
2SD633		BDW93C	2SD818		BU208A
2SD634		BDW93B	2SD819		BU208A
2SD635		BDW93B	2SD820		BU208A
2SD640		BUX80	2SD821		BU208A
2SD650		BU931	2SD823		BU406
2SD663		BU931	2SD836		TIP110
2SD665		BUX41	2SD837		TIP120
2SD668		MJE340	2SD839		BDX53B
2SD668A		MJE340	2SD840		BDX53B
2SD670		MJ11016	2SD843		BD911
2SD678		TIP110	2SD844		TIP35C
2SD679		TIP112	2SD867		BUV50
2SD683		MJ10005	2SD868		BU208D
2SD685		BU931	2SD869		BU208D
2SD686		TIP122	2SD870		BU208D
2SD687		TIP121	2SD872		MJE3055T
2SD689		TIP112	2SD878		2N3055
2SD693		BU931	2SD880		TIP31A
2SD705		BU931	2SD882		MJE182
2SD709		BU931	2SD897		BU208D
2SD710		MJ10005	2SD897A		BU208D
2SD716		TIP35C	2SD898		BU208D
2SD717		TIP33C	2SD898A		BU208D
2SD721		TIP102	2SD898B		BU208D

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
2SD899		BU208D			THD215HI
2SD899A		BU208D	2SD2039		BD681
2SD900		BU208D	2SD2115		THD218DHI
2SD900A		BU208D	2SD2253		BUH615D
2SD900B		BU208D	2SD2311		THD277HI
2SD903		BU208D	2SD2331		BUH315D
2SD904		BU208D	2SD2333		THD277HI
2SD950		BU208A	2SD5072		BUH1015HI
2SD951		BU208A	BD127		MJE340
2SD952		BU208A	BD128		MJE340
2SD953		BU208A	BD130		2N3055
2SD956		BU208D	BD131		BD135
2SD957A		BU208D	BD132		BD136
2SD990		TIP112	BD135	BD135	
2SD993		BU208D	BD135-10		BD139-10
2SD994		BU208D	BD135-16		BD139-10
2SD1061		D44H8	BD135-6		BD135
2SD1062		D44H8	BD136	BD136	
2SD1069		BU407D	BD136-10		BD140-10
2SD1131		D44H8	BD136-16		BD140-10
2SD1132		D44H8	BD136-6		BD136
2SD1163		BU406	BD137	BD137	
2SD1163A		BU406	BD137-10		BD139-10
2SD1187		TIP33C	BD137-16		BD137
2SD1201		BU931	BD137-6		MJE182
2SD1203		BU941Z	BD138	BD138	
2SD1389		THD218DHI	BD138-10		BD138
2SD1398		THD277HI	BD138-16		BD138
2SD1403		THD219HI	BD138-6		BD138
2SD1412		BD243B	BD139	BD139	
2SD1413		TIP110	BD139-10	BD139-10	
2SD1414		TIP122	BD139-16		BD139-10
2SD1415		TIP120	BD139-6		BD139
2SD1417		TIP102	BD140	BD140	
2SD1417		TIP102	BD140-10	BD140-10	
2SD1533		BUH315D	BD140-16		BD140
2SD1541		BUH315D	BD140-6		BD140
2SD1545		THD277HI	BD157		MJE3440
2SD1546		THD219HI	BD158		MJE340
2SD1548		THD200FI or	BD159		MJE340
		THD215HI	BD165		BD437
2SD1554		BUH315D	BD166		BD438
2SD1555		BUH615D	BD167		BD439
2SD1556		BUH515D	BD168		BD440
2SD1650		BUH315D	BD169		BD441
2SD1877		BUH315D	BD170		BD442
2SD1878		THD218DHI	BD171		BD237
2SD1882		BUH315	BD172		BD238
2SD1885		THD200FI or	BD175		BD179
		THD215HI	BD175-10		BD179
2SD1886		THD219HI	BD175-16		BD179
2SD1941		THD200FI or	BD176		BD234

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BD176-10		BD234	BD233		BD235
BD177		BD179	BD234	BD234	
BD177-10		BD179	BD235	BD235	
BD178		BD236	BD236	BD236	
BD179	BD179		BD237	BD237	
BD179-10		BD179	BD238	BD238	
BD179-16		BD179	BD239		BD241A
BD180	BD180	BD238	BD239A		BD241A
BD180-10		BD238	BD239B		BD241B
BD181		BDW51C	BD239C	BD239C	
BD182		BDW51C	BD240		BD242B
BD183		BDW51C	BD240A		BD242B
BD184		BDW51C	BD240B		BD242B
BD185		BD435	BD240C		BD242C
BD186		BD436	BD241		BD241A
BD187		BD437	BD241A	BD241A	
BD188		BD438	BD241B	BD241B	
BD189		BD439	BD241C	BD241C	
BD190		BD440	BD242		BD242A
BD195		BD535	BD242A	BD242A	
BD196		BD534	BD242B	BD242B	
BD197		BD535	BD242C	BD242C	
BD198		BD536	BD243		BD243B
BD199		BD537	BD243A		BD243B
BD200		BD538	BD243B	BD243B	
BD201		BD707	BD243C	BD243C	
BD202		BD708	BD244		BD244B
BD203		BD707	BD244A		BD244B
BD204		BD710	BD244B	BD244B	
BD205		BD909	BD244C	BD244C	
BD206		BD910	BD245		TIP33C
BD207		BD909	BD245A		TIP33C
BD208		BD910	BD245B		TIP33C
BD213-45		2N6487	BD245C		TIP33C
BD213-60		2N6487	BD246		TIP34C
BD213-80		2N6488	BD246A		TIP34C
BD214-45		2N6489	BD246B		TIP34C
BD214-60		2N6490	BD246C		TIP34C
BD214-80		BD912	BD249		TIP34C
BD220		BD537	BD249A		TIP35C
BD221		BD535	BD249B		TIP35C
BD222		BD535	BD249C	BD249C	TIP35C
BD223		BD538	BD250		TIP35C
BD224		BD534	BD250A		TIP36B
BD225		BD536	BD250B		TIP36B
BD226		BD179	BD250C		TIP36B
BD227		BD234	BD253		TIP36C
BD228		BD179	BD253A		BU326A
BD229		BD236	BD253B		BU326A
BD230		BD179	BD253C		BU326A
BD231		BD238	BD262		BD678
BD232		MJE340	BD262A		BD680

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BD262B		BD682	BD333	BD336	MJD122
BD263		BD677	BD334		BD336
BD263A		BD679	BD335		MJD122
BD263B		BD681	BD336		BDX33C
BD264		BDX34B	BD337		BDX34C
BD264A		BDX34B	BD338		2N3055
BD264B		BDX34C	BD342		MJ2955
BD265		BDX33B	BD343		BD138
BD265A		BDX33B	BD344		BD137
BD265B		BDX33C	BD345		BD710
BD266		BDX54B	BD346		BD709
BD266A		BDX54B	BD347		BD140
BD266B		BDX54C	BD348		BD139
BD267		BDX53B	BD349		BD433
BD267A		BDX53B	BD361		BD433
BD267B		BDX53C	BD361A		BD434
BD268		BDW94B	BD362		BD434
BD268A		BDW94B	BD362A		BD235
BD269		BDW93B	BD375		BD236
BD269A		BDW93B	BD376		BD237
BD271		BD535	BD377		BD238
BD272		BD534	BD378		BD237
BD273		BD535	BD379		BD140
BD274		BD536	BD380		MJE182
BD275		BD537	BD385		MJE182
BD276		BD538	BD385-2		MJE182
BD277		BD708	BD385-5		MJE182
BD278		BD707	BD385-8		MJE182
BD278A		BD707	BD386		MJE172
BD279		2N6036	BD386-1		MJE172
BD291		BD243B	BD386-2		MJE172
BD292		BD244B	BD386-5		MJE172
BD293		BD243B	BD386-8		MJE172
BD294		BD244B	BD387		MJE182
BD295		BD243B	BD387-1		MJE182
BD296		BD244B	BD387-2		MJE182
BD301		BD535	BD387-5		MJE182
BD302		BD534	BD387-8		MJE182
BD303		BD535	BD388		MJE172
BD304		BD536	BD388-1		MJE172
BD306A		MJE182	BD388-2		MJE172
BD306B		MJE182	BD388-5		MJE172
BD307A		MJE182	BD388-8	MJE172	
BD307B		MJE182	BD410	2N5657	
BD311		BDW51C	BD411	TIP112	
BD312		BDW52C	BD412	TIP112	
BD313		BDW51C	BD414	TIP117	
BD314		BDW52C	BD415	TIP29A	
BD329		BD435	BD416	TIP30A	
BD330		MJE210	BD417	TIP29C	
BD331		MJD122	BD418	TIP30C	
BD332		BD336	BD429	TIP29A	

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BD430		TIP30A	BD545B		TIP35C
BD433	BD433		BD545C		TIP35C
BD434	BD434		BD546		TIP36B
BD435	BD435		BD546A		TIP36B
BD436	BD436		BD546B		TIP36B
BD437	BD437		BD546C		TIP36C
BD438	BD438		BD550B		BUX41
BD439	BD439		BD561		BD437
BD440	BD440		BD562		BD438
BD441	BD441		BD575		BD535
BD442	BD442		BD576		BD534
BD443		BD179	BD577		BD535
BD443A		BD179	BD578		BD536
BD450		2N3055	BD579		BD537
BD451		2N3055	BD580		BD538
BD466A		BD681	BD581		TIP31C
BD466B		BD681	BD582		TIP32C
BD477A		2N6036	BD585		BD535
BD477B		2N6036	BD586		BD534
BD500		BD910	BD587		BD535
BD500A		BD910	BD588		BD536
BD500B		BD910	BD589		BD537
BD501		BD909	BD590		BD538
BD501A		BD909	BD591		TIP31C
BD501B		BD909	BD592		TIP32C
BD533	BD533	BD535	BD595		BD709
BD533FI	BD533FI		BD596		BD708
BD534	BD534		BD597		BD707
BD534FI	BD534FI		BD598		BD708
BD535	BD535		BD599		BD709
BD536	BD536		BD600		BD710
BD536FI	BD536FI		BD601		BD711
BD537	BD537		BD602		BD712
BD538	BD538		BD605		BD909
BD539		BD909	BD606		BD910
BD539A		BD909	BD607		BD909
BD539B		BD909	BD608		BD910
BD539C		BD911	BD609		BD909
BD540		BD910	BD610		BD910
BD540A		BD910	BD611		BD437
BD540B		BD910	BD612		BD438
BD540C		BD912	BD613		BD437
BD543		BD909	BD614		BD438
BD543A		BD909	BD615		BD437
BD543B		BD909	BD616		BD438
BD543C		BD911	BD617		BD437
BD544		BD910	BD618		BD440
BD544A		BD910	BD619		BD441
BD544B		BD910	BD620		BD442
BD544C		BD912	BD633		BD535
BD545		TIP35C	BD634		BD534
BD545A		TIP35C	BD635		BD535



## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BD636		BD536	BD711	BD711	
BD637		BD537	BD712	BD712	
BD638		BD538	BD733		BD535
BD643		BDX53B	BD734		BD534
BD644		BDX54B	BD734B		BD911
BD645		BDX53B	BD735		BD535
BD646		BDX54B	BD736		BD534
BD647		BDX53B	BD737		BD535
BD648		BDX54B	BD738		BD534
BD649		BDX53C	BD743		BD911
BD650		BDX54C	BD743A		BD911
BD650F		BDW94CFI	BD743B		BD911
BD650H		BDX54C	BD743C		BD911
BD651		BDX53F	BD744		BD912
BD652		BDX54F	BD744A		BD912
BD661K		TIP31C	BD744B		BD912
BD662K		TIP32B	BD744C		BD912
BD663		2N6488	BD745		TIP35C
BD664		BD912	BD745A		TIP35C
BD675		BD677	BD745B		TIP35C
BD675A		BD677A	BD745C		TIP35C
BD676		BD678	BD746		TIP36B
BD676A		BD678A	BD746A		TIP36B
BD677	BD677		BD746B		TIP36B
BD677A	BD677A		BD746C		TIP36C
BD678	BD678		BD785		BD179
BD678A	BD678A		BD786		BD234
BD679	BD679		BD787		MJE182
BD679A	BD679A		BD788		MJE172
BD680	BD680		BD789		BD179
BD680A	BD680A		BD795		BD707
BD681	BD681		BD796		BD708
BD682	BD682		BD797		BD707
BD695		BDW93B	BD798		BD708
BD695A		BDX53B	BD799		BD709
BD696A		BDX54B	BD800		BD710
BD697		BDX53B	BD801		BD711
BD697A		BDX53B	BD802		BD712
BD698		BDX54B	BD805		BD909
BD698A		BDX54B	BD806		BD910
BD699		BDX53B	BD807		BD909
BD699A		BDX53B	BD808		BD910
BD700		BDX54B	BD809		BD909
BD700A		BDX54B	BD810		BD910
BD701		BDX53C	BD815		MJE182
BD702		BDX54C	BD816		MJE172
BD705		BD707	BD825		MJE182
BD706		BD708	BD826		MJE172
BD707	BD707		BD828		MJE172
BD708	BD708		BD834		MJE172
BD709	BD709		BD835		MJE182
BD710	BD710		BD836		MJE172

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BD837		BD179	BD949		BD241A
BD861		BD677	BD950		BD536
BD862		BD678	BD951		BD241B
BD863		BD677	BD952		BD242B
BD864		BD678	BD953		BD241C
BD865		BD679	BD954		BD242C
BD866		BD680	BDT20/T		BDX54F
BD875		BD677	BDT21		BDX53F
BD876		BD678	BDT29		TIP29A
BD877		BD677	BDT29A		TIP29A
BD878		BD678	BDT29B		TIP29C
BD879		BD679	BDT29C		TIP29C
BD880		BD680	BDT30		TIP30A
BD895		BDW93B	BDT30A		TIP30A
BD895A		BDW93B	BDT30B		TIP30C
BD896		BDW94B	BDT30C		TIP30C
BD896A		BDW94B	BDT31		TIP31A
BD897		BDW93B	BDT31A		TIP31A
BD897A		BDW93B	BDT31B		TIP31C
BD898		BDW94B	BDT31C		TIP31C
BD898A		BDW94B	BDT32		TIP32A
BD899		BDW93B	BDT32A		TIP32A
BD899A		BDW94B	BDT32B		TIP32B
BD900		BDW94B	BDT32C		TIP32C
BD900A		BDW94B	BDT41		TIP41A
BD901		BDW94C	BDT41A		TIP41A
BD902		BDW94C	BDT41B		TIP41B
BD905		BD909	BDT41C		TIP41C
BD906		BD910	BDT42		TIP42A
BD907		BD909	BDT42A		TIP42A
BD908		BD910	BDT42B		TIP42B
BD909	BD909		BDT42C		TIP42C
BD910	BD910		BDT60		TIP125
BD911	BD911		BDT60A		TIP126
BD912	BD912		BDT60B		TIP127
BD933		BD241B	BDT60C		BDX54F
BD934		BD242B	BDT60F		BDW94BFI
BD935		BD241B	BDT61		TIP120
BD936		BD242B	BDT61A		TIP121
BD937		BD241B	BDT61B		TIP122
BD938		BD242B	BDT61C		BDX53C
BD939		BD239C	BDT62		BDW94B
BD940		BD242C	BDT62A		BDW94B
BD943		BD535	BDT62B		BDW94C
BD943F		BD533FI	BDT63		BDW93B
BD944		BD534	BDT63A		BDW93B
BD944F		BD534FI	BDT63B		BDW93C
BD945		BD535	BDT63C		BDW93C
BD945/T		BD435	BDT64		TIP147T
BD946F		BD534FI	BDT64A		TIP147T
BD947		BD535	BDT64B		TIP147T
BD948		BD534	BDT64C		TIP147T

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BDT65		TIP142T	BDW46		TIP147T
BDT65A		TIP142T	BDW47		TIP147T
BDT65B		TIP142T	BDW48		TIP147T
BDT65C		TIP142T	BDW51		BDW51C
BDT85		BD911	BDW51A		BDW51C
BDT86		BD912	BDW51B		BDW51C
BDT91		BD909	BDW51C	BDW51C	
BDT92		BD910	BDW52		BDW52C
BDT93		BD909	BDW52A		BDW52C
BDT94		BD910	BDW52B		BDW52C
BDT95		BD911	BDW52C	BDW52C	
BDT96		BD912	BDW53		BDX53B
BDV64		TIP147	BDW53A		BDX53B
BDV64A		TIP147	BDW53B		BDX53B
BDV64B		TIP147	BDW53C		BDX53C
BDV64C		TIP147	BDW53D		BDX53C
BDV65		TIP141	BDW54		BDX54B
BDV65A		TIP141	BDW54A		BDX54B
BDV65B		TIP142	BDW54B		BDX54B
BDV65C		TIP142	BDW54C		BDX54C
BDV66A		SGSD200	BDW54D		BDX54C
BDV66B		SGSD200	BDW55		BD135
BDV67		BDW83C	BDW57		BD137
BDV67A		BDW83C	BDW58		BD138
BDV67B		BDW83C	BDW63		TIP120
BDV91		TIP33C	BDW63A		TIP120
BDV92		TIP34C	BDW63B		TIP121
BDV93		TIP33C	BDW63C		TIP122
BDV94		TIP34C	BDW63D		TIP122
BDV95		TIP33C	BDW64		TIP125
BDV96		TIP34C	BDW64A		TIP125
BDW21		BDW51C	BDW64B		TIP126
BDW21A		BDW51C	BDW64C		TIP127
BDW21B		BDW51C	BDW73		TIP100
BDW21C		BDW51C	BDW73A		TIP100
BDW22		BDW52C	BDW73B		TIP102
BDW22A		BDW52C	BDW73C		TIP102
BDW22B		BDW52C	BDW73D		TIP102
BDW22C		BDW52C	BDW74		TIP105
BDW23		BDX53B	BDW74A		TIP105
BDW23A		TIP110	BDW74B		TIP106
BDW23B		BDX53B	BDW74C		TIP107
BDW23C		BDX53C	BDW74D		TIP107
BDW24		TIP125	BDW83		BDW83C
BDW24A		TIP125	BDW83A		BDW83C
BDW24B		TIP126	BDW83B		BDW83C
BDW24C		TIP127	BDW83C	BDW83C	
BDW39		TIP142T	BDW84		SGSD200
BDW40		TIP142T	BDW84A		SGSD200
BDW41		TIP142T	BDW84B		SGSD200
BDW42		TIP142T	BDW84C	BDW84C	SGSD200
BDW43		TIP142T	BDW93		BDW93B

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BDW93A		BDW93B	BDX64		BDX88C
BDW93AFI		BDW93CFI	BDX64A		BDX88C
BDW93B	BDW93B		BDX64B		BDX88C
BDW93BFI		BDW93CFI	BDX65		BDX87C
BDW93C	BDW93C		BDX65A		BDX87C
BDW93CFI	BDW93CFI		BDX65B		BDX87C
BDW93FI		BDW93CFI	BDX66		MJ2501
BDW94		BDW94B	BDX66A		MJ2501
BDW94A		BDW94B	BDX66B		MJ4032
BDW94B	BDW94B		BDX67		MJ3001
BDW94C	BDW94C		BDX67A		MJ3001
BDW94CFI	BDW94CFI		BDX67B		MJ4035
BDW94FI		BDW94BFI	BDX68		MJ11013
BDX13		BDW51C	BDX68A		MJ11013
BDX18		BDW52C	BDX68B		2N6287
BDX33		BDX33B	BDX68C		2N6287
BDX33A		BDX33B	BDX69		MJ11014
BDX33B	BDX33B		BDX69A		MJ11014
BDX33C	BDX33C		BDX69B		MJ11016
BDX33D		BDX33C	BDX69C		MJ11016
BDX34		BDX34B	BDX70		2N6487
BDX34A		BDX34B	BDX71		2N6487
BDX34B	BDX34B		BDX72		2N6488
BDX34C	BDX34C		BDX73		2N6488
BDX34D		BDX34C	BDX74		2N6487
BDX35		TIP42C	BDX75		2N6487
BDX42		BD677	BDX77		BD709
BDX43		BD679	BDX78		BD710
BDX44		BD681	BDX83		BDX87C
BDX45		BD678	BDX83A		BDX87C
BDX46		BD680	BDX83B		BDX87C
BDX47		BD682	BDX83C		BDX87C
BDX53		BDX53B	BDX84		BDX88C
BDX53A		BDX53B	BDX84A		BDX88C
BDX53B	BDX53B		BDX84B		BDX88C
BDX53C	BDX53C		BDX84C		BDX88C
BDX53D		BDX53C	BDX85		BDX87C
BDX53E		BDX53F	BDX85A		BDX87C
BDX53F	BDX53F		BDX85B		BDX87C
BDX54		BDX54B	BDX85C		BDX87C
BDX54A		BDX54B	BDX86		BDX88C
BDX54B	BDX54B		BDX86A		BDX88C
BDX54C	BDX54C		BDX86B		BDX88C
BDX54D		BDX54C	BDX86C		BDX88C
BDX54E		BDX54F	BDX87		BDX87C
BDX54F	BDX54F		BDX87A		BDX87B
BDX62		BDX88C	BDX87B		BDX87C
BDX62A		BDX88C	BDX87C	BDX87C	
BDX62B		BDX88C	BDX88		BDX88C
BDX63		BDX87C	BDX88A		BDX88C
BDX63A		BDX87C	BDX88B		BDX88C
BDX63B		BDX87C	BDX88C	BDX88C	

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BDX91		BDW51C	BU204		BU208A
BDX92		BDW52C	BU205		BU208A
BDX93		BDW51C	BU205A		BU208A
BDX94		BDW52C	BU207		BU208A
BDX95		BDW51C	BU208		BU208A
BDX96		BDW52C	BU208A	BU208A	
BDY29		2N5886	BU208D	BU208D	
BDY34		MJE182	BU322		BU931
BDY53		BUX10	BU322A		BU931
BDY54		BUX10	BU323		BU931
BDY55		BUX10	BU323A		BU931
BDY56		BUX10	BU325		BUY49P
BDY57		BUX10	BU326		BU326A
BDY58		BUX10	BU326A	BU326A	
BDY76		2N3772	BU326S		BU326A
BDY80		BD241A	BU361		BUY69A
BDY81		BD241A	BU406	BU406	
BDY82		BD242A	BU406D	BU406D	
BDY83		BD242A	BU407	BU407	
BDY90	BDY90		BU407D	BU407D	
BDY91		BDY90	BU407FI	BU407FI	
BDY92		BDY90	BU408		BU406
BDY93		BU326A	BU409		BU407
BDY94		BU326A	BU426		BU426A
BDY95		BU326A	BU426A	BU426A	
BDY96		BUX80	BU433		BUV48A
BDY96-1		BUX48	BU500		BU208A
BDY97		BUX48	BU505	BU505	
BDY97-1		BUX48	BU508		BU508A
BFX34	BFX34		BU508A	BU508A	
BFX34S		BFX34	BU508AFI	BU508AFI	
BSS44	BSS44		BU508AT		BUL416
BSW67		BUY49S	BU508D	BU508D	
BSW68		BUY49S	BU508DFI	BU508DFI	
BU104DP		BU406D	BU508FI		BU508AFI
BU104P		BU406	BU724AS	BU724AS	
BU105		BU208A	BU801	BU801	
BU108		BU208A	BU806	BU806	
BU109DP		BU407D	BU806FI	BU806FI	
BU109P		BU407	BU807	BU807	
BU111		BU326A	BU807FI		BU806FI
BU124		BU406	BU808		BU208A
BU124A		BU407	BU808DFI	BU808DFI	
BU125		BUY49S	BU810	BU810	
BU125S		BUY49S	BU910		BU911
BU126		BU326A	BU911	BU911	
BU126A		BUX80	BU912		BU911
BU133		BU326A	BU921		BU931
BU134		BU326A	BU921P		BU931P
BU137		BUY69A	BU921T	BU921T	BU931T
BU157		BU208A	BU922T		BU931T
BU184		BU806	BU930Z		BU941Z

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BU930ZP		BU941ZP	BUF410AFI		BUF410A
BU931	BU931		BUF410AI		BUF410
BU931P	BU931P		BUF410FI		BUF410
BU931PFI	BU931PFI		BUF410I		BUF410
BU931R		BU931	BUF420	BUF420	
BU931RP		BU931P	BUF420A	BUF420A	
BU931RPFI		BU931PFI	BUF420AI	BUF420AI	
BU931T	BU931T		BUF420I		BUF420AI
BU931TFI	BU931TFI		BUF420M	BUF420M	
BU931Z		BU941Z	BUF460AV	BUF460AV	
BU931ZP	BU931ZP	BU941ZP	BUF460V		BUF460AV
BU931ZPFI		BU941ZPFI	BUF654		BUL67
BU931ZT		BU941ZT	BUH50		BUL38D
BU931ZTFI		BU941ZTFI	BUH51		BULT118
BU932		BU931	BUH100		BUL510
BU932P		BU931P	BUH150		BUL67
BU932R		BU931	BUH200		BUL87
BU932RP		BU931P	BUH313	BUH313	BUH315
BU932RPFI		BU931PFI	BUH315	BUH315	
BU941	BU941		BUH315D	BUH315D	
BU941P	BU941P		BUH513	BUH513	
BU941PFI	BU941PFI		BUH515	BUH515	THD277HI
BU941T	BU941T		BUH515D	BUH515D	THD218DHI
BU941TFI	BU941TFI		BUH615D	BUH615D	
BU941Z	BU941Z		BUH715	BUH715	THD200FI or THD215HI
BU941ZP	BU941ZP				
BU941ZPFI	BU941ZPFI		BUH1015	BUH1015	
BU941ZT	BU941ZT		BUH1015HI	BUH1015HI	
BU941ZTFI	BU941ZTFI		BUH1215	BUH1215	
BU999		BUX10P	BUL26	BUL26	BUL128
BU1706A		BUL216	BUL43B		BUL128
BU2506DF		BUH315D	BUL44		BUL128
BU2508A		BU508A	BUL44D2		BUL128D
BU2508AF		THD277HI	BUL45		BUL138
BU2508DF		THD218DHI	BUL48		BUL138
BU2520AF		THD200FI or THD215HI	BUL57	BUH57	
		THD200FI or THD215HI	BUL58D	BUH58D	
BU2522AF		THD200FI or THD215HI	BUL67	BUH67	
		THD215HI	BUL87	BUH87	
BU2525A		BUH1015	BUL128	BUH128	
BU2525AF		BUH1015HI	BUL128D	BUH128D	
BU2527AF		BUH1015	BUL138	BUH138	
BUB931T	BUB931T		BUL146		BUL138
BUB941T	BUB941T		BUL146F		BUL138
BUB941ZT	BUB941ZT		BUL147		BUL67
BUF298AV		BUV298AV	BUL213	BUH213	
BUF405		BUF405A	BUL216	BUH216	
BUF405A	BUF405A		BUL310	BUH310	
BUF405AFI		BUF405A	BUL310PI	BUH310PI	
BUF405FI		BUF405	BUL381	BUH381	
BUF410	BUF410		BUL381D	BUH381D	
BUF410A	BUF410A		BUL382	BUH382	

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BUL382D	BUL382D		BUT100	BUT100	
BUL38D	BUL38D		BUT102	BUT102	BUT32V BUT232V
BUL416	BUL416		BUT230V		
BUL510	BUL510		BUT232V	BUT232V	
BUL770		BUL128	BUV18	BUV18	
BUL791		BUL138	BUV18A		BUT90 BUR50S
BUL810	BUL810		BUV19		
BULD125KC		BUL382D	BUV20	BUV20	
BULD50KC		BUL128D	BUV21	BUV21	
BULD85KC		BUL381D / 2D	BUV21N		BUV21
BULF791		BUL67	BUV22	BUV22	
BULK38D	BULK38D		BUV23	BUV23	BUX98 BUX98 BUX98A
BULK381	BULK381		BUV24		
BULK382	BULK382		BUV25		
BULT118	BULT118		BUV26	BUV26	
BULT118D	BULT118D		BUV27	BUV27	
BUR20		BUV20	BUV28	BUV28	
BUR21		BUV21	BUV39		BUV40 BUX40 BUX41 BUX41 BUX48 BUX48 BUX48A
BUR22		BUV22	BUV40		
BUR24		BUX98	BUV41		
BUR50		BUR50S	BUV42		
BUR50S	BUR50S		BUV42A		
BUR51	BUR51		BUV44		
BUR52	BUR52		BUV45		
BUS11		BUL381 / 2	BUV46	BUV46	
BUS12		BUX80	BUV46A	BUV46A	
BUS12A		BUY69A	BUV46FI	BUV46FI	
BUS13		BUX48	BUV47		BUV47A
BUS13A		BUX48A	BUV47A	BUV47A	
BUS14A		BUX98A	BUV47AFI		BUV48AFI BUV48AFI BUV48AFI BUV48AFI BUV48A
BUS46P		BUL381 / 2	BUV47AI		
BUS47		BUX48	BUV47FI		
BUS47A		BUX48A	BUV47I		
BUS48		BUX48	BUV48	BUV48	
BUS48A		BUX48A	BUV48A	BUV48A	
BUT11		BUT11A	BUV48AFI	BUV48AFI	
BUT11A	BUT11A		BUV48AI		BUV48AFI
BUT11AFI	BUT11AFI	BUL310PI	BUV48B	BUV48B	
BUT11FI		BUL310PI	BUV48BFI		BUV48CFI
BUT12A		BUL510	BUV48C	BUV48C	
BUT12AFI	BUT12AFI		BUV48CFI	BUV48CFI	
BUT13		MJ10005	BUV48CI		BUV48CFI
BUT14		MJ10005	BUV48FI	BUV48FI	
BUT18		BUL510	BUV48I		BUV48FI
BUT18A		BUL510	BUV50	BUV50	
BUT30V	BUT30V		BUV51		BUX12 BUX12 BUX48 BUL67 BUW38
BUT32V	BUT32V		BUV52		
BUT70	BUT70		BUV52A		
BUT70I	BUT70I		BUV56		
BUT90	BUT90		BUV60		
BUT92	BUT92		BUV61	BUV61	
BUT92A	BUT92A		BUV62		BUV22

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BUV98AF		BUV98AV	BUX12	BUX12	
BUV98AV	BUV98AV		BUX13		BUX48
BUV98CV		BUV98AV	BUX14		BUX48
BUV98V	BUV98V		BUX15		BUX48
BUV298AV	BUV298AV		BUX16		BU326A
BUV298CV		BUV298AV	BUX16A		BU326A
BUV298F		BUV298V	BUX16B		BU326A
BUV298V	BUV298V		BUX16C		BU326A
BUW11A		BU426A	BUX17		BUX41N
BUW12		BUV47A	BUX17A		BUX41
BUW12A	BUW12A	BUV47A	BUX17B		BUX48
BUW13A		BUV48A	BUX17C		BUX48
BUW22		MJE5852	BUX18		BUX41
BUW22A		MJE5852	BUX18A		BUX41
BUW22AP		MJE5852	BUX18B		BUY69A
BUW22P		MJE5852	BUX18C		BUY69A
BUW24		BU326A	BUX20	BUX20	
BUW26		BU326A	BUX21	BUX21	BUX22
BUW32		MJE5852	BUX22	BUX22	
BUW32A		BUW42A	BUX23		BUX98
BUW32AP		MJE5852	BUX24		BUX98
BUW32P		MJE5852	BUX25		BUX98
BUW34		BUX80	BUX29		BU931
BUW35		BUY69A	BUX348	BUX348	
BUW36		BUY69A	BUX37		BU931
BUW38	BUW38		BUX39		BUV40
BUW39		BUW38	BUX40	BUX40	
BUW42		BUW42A	BUX41	BUX41	
BUW42A	BUW42A		BUX41N	BUX41N	
BUW44		BUX48	BUX42		BUX41
BUW45		BUX48	BUX43		BUX48
BUW46		BUX48A	BUX44		BUY69A
BUW48	BUW48		BUX47		BUX80
BUW49	BUW49		BUX47A		BUY69A
BUW50	BUW50		BUX48	BUX48	
BUW57		BUX10	BUX48A	BUX48A	
BUW72		MJE13009	BUX48C	BUX48C	
BUW73		BUX12	BUX48S		BUX48
BUW74		BUX48	BUX80	BUX80	
BUW75		BUX48	BUX81		BUY69A
BUW76		BUX48	BUX82		BU326A
BUW77		BUX48	BUX83		BU326A
BUW84		ST13003	BUX84		BUV46
BUW85		ST13003	BUX85		BUT11A
BUW89	BUW89		BUX86		ST13003
BUW90	BUW90		BUX87	BUX87	
BUX10	BUX10		BUX98	BUX98	
BUX100		BULT118	BUX98A	BUX98A	
BUX10P	BUX10P		BUX98AP	BUX98AP	
BUX10S		BUX10	BUX98C	BUX98C	
BUX11	BUX11	BUX12	BUX98P	BUX98P	
BUX11S		BUX12	BUX98PI	BUX98PI	



## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BUY49P	BUY49P		D41K4		BD680A
BUY49S	BUY49S		D42C1		MJE182
BUY69A	BUY69A		D42C2		MJE182
BUY69B		BUY69A	D42C3		MJE182
BUY69C		BUY69A	D42C4		MJE172
BUY70A		BU326A	D42C5		MJE172
BUY70B		BU326A	D42C6		MJE172
BUY70C		BU326A	D42C7		MJE172
D40C1		MJE802	D42C8		MJE172
D40C2		MJE802	D42C9		MJE172
D40C4		MJE802	D43C1		MJE182
D40C5		MJE802	D43C2		MJE182
D40D1		MJE182	D43C3		MJE182
D40D10		MJE182	D43C4		MJE172
D40D11		MJE182	D43C5		MJE172
D40D13		MJE182	D43C6		MJE172
D40D14		MJE182	D43C7		MJE172
D40D2		MJE182	D43C8		MJE172
D40D3		MJE182	D43C9		MJE172
D40D4		MJE182	D44D1		TIP102
D40D5		MJE182	D44D1		TIP102
D40D7		MJE182	D44D2		TIP102
D40D8		MJE182	D44D2		TIP102
D40E1		MJE182	D44H2		D44H8
D40E5		MJE182	D44H4		D44H11
D40E7		MJE182	D44H5		D44H8
D40K1		MJE802	D44H7		D44H11
D40K2		MJE802	D44H8	D44H8	
D40K3		MJE802	D44H10		D44H11
D40K4		MJE802	D44H11	D44H11	
D40N1		MJE340	D44R1		TIP47
D40N2		MJE340	D44R2		TIP47
D40N3		MJE340	D44R3		TIP48
D40N4		MJE340	D44R4		TIP48
D40P5		MJE340	D44R5		TIP47
D41C2		D44H8	D44R6		TIP48
D41D1		2N4920	D44TD3		BUL381 / 2
D41D2		2N4920	D44TD4		BUL381 / 2
D41D4		2N4920	D44TD5		BUL381 / 2
D41D5		2N4920	D44TE3		BUL381 / 2
D41D7		2N4920	D44TE4		BUL381 / 2
D41D8		2N4920	D44TE5		BUL381 / 2
D41D10		2N4920	D45E1		TIP125
D41D11		2N4920	D45E2		TIP126
D41D13		2N4920	D45E3		TIP126
D41D14		2N4920	D45H1		D45H5
D41E1		2N4920	D45H2		D45H8
D41E5		2N4920	D45H4		D45H8
D41E7		2N4920	D45H5	D45H5	
D41K1		BD680A	D45H7		D45H8
D41K2		BD680A	D45H8	D45H8	
D41K3		BD680A	D45H10		D45H8

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
D45H11	D45H11		KSD526		TIP31C
D56W1		BU208A	KSD560		BDX33C
D56W2		BU208A	KSD568		D44H11
D56W3		BU208A	KSD569		D44H11
D56W4		BU208A	KSD794		MJE182
DK52		ST13003	KSD794A		MJE182
DK53		BUL128	KSD880		TIP31C
ESM2012DV	ESM2012DV		KSD882		MJE182
ESM2030DV	ESM2030DV		KSD985		BD679
ESM3030DV	ESM3030DV		KSD986		BD679
ESM3045AV		ESM6045AV	KSD5072		THD218DHI
ESM3045DV	ESM3045DV		KSE13004		ST13005
ESM4045AV		ESM6045AV	KSE13005		ST13005
ESM4045DV	ESM4045DV		KSE13006		ST13007
ESM5045DV	ESM5045DV		KSE13007		ST13007
ESM6045AV	ESM6045AV		KSE13008		BUL87
ESM6045DV	ESM6045DV		KSE13009		BUL87
GE5060		MJ10005	MDS20		2N5657
GE5061		MJ10005	MDS21		2N5657
GE5062		MJ10005	MDS27		MJE182
GE6251		MJ10005	MDS60		MJE350
GE6252		MJ10005	MDS73		MJE172
GE6253		MJ10005	MDS74		MJE172
HLB123B		BULT118	MDS76		MJE182
KSA614		TIP42B	MDS77		MJE172
KSA1220A		MJE350	MDS1678		MJE182
KSB596		TIP32B	MJ105		BU208A
KSB601		BDX34C	MJ205		BU208A
KSB744		MJE172	MJ424		BUY69A
KSB744A		MJE172	MJ425		BUY69A
KSB772		MJE172	MJ480		2N3055
KSB794		BD680A	MJ481		2N3055
KSB795		BD680A	MJ490		BDW52C
KSB834		TIP32B	MJ491		BDW52C
KSC1520		2N5657	MJ701		BU208A
KSC2233		TIP41C	MJ702		BU208A
KSC2517		TIP41C	MJ704		BU208A
KSC2688		2N5657	MJ721		BU208A
KSC2690		MJE340	MJ723		BU208A
KSC2690A		MJE340	MJ802	MJ802	
KSC5020		BUL128	MJ804		BU208A
KSC5021		BUL138	MJ900		MJ2501
KSC5023		BUL310	MJ901		MJ2501
KSC5024		BUL410	MJ1000		MJ3001
KSC5026		BUL216	MJ1001		MJ3001
KSC5027		BUL216	MJ2267		MJ2955
KSC5039		BUL138	MJ2268		MJ2955
KSC5060		BUL310	MJ2300		MJE182
KSC5061		BUL310	MJ2500		MJ2501
KSD73		D44H8	MJ2501	MJ2501	
KSD288		TIP41B	MJ2801		2N3055
KSD362		D44H11	MJ2855		MJ2955

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
MJ2901		TIP2955	MJ15011		BUX41
MJ2955	MJ2955		MJ15015		2N3055
MJ3000		MJ3001	MJ15016		MJ2955
MJ3001	MJ3001		MJ15022		BUX12
MJ3029		BU326A	MJ16018		BU208A
MJ3030		BU326A	MJD31CT4	MJD31CT4	
MJ3042		BU931	MJD32CT4	MJD32CT4	
MJ3055		2N3055	MJD47T4	MJD47T4	
MJ4030		MJ4032	MJD112T4	MJD112T4	
MJ4031		MJ4032	MJD117T4	MJD117T4	
MJ4032	MJ4032		MJD122T4	MJD122T4	
MJ4033		MJ4035	MJD127T4	MJD127T4	
MJ4034		MJ4035	MJD340T4	MJD340T4	
MJ4035	MJ4035		MJD350T4	MJD350T4	
MJ4247		BUX41	MJD2955T4	MJD2955T4	
MJ4248		BUX41	MJD3055T4	MJD3055T4	
MJ4360		ST13003	MJE29		TIP31C
MJ4380		ST13005	MJE29A		TIP31C
MJ4401		ST13005	MJE29B		TIP31C
MJ4502	MJ4502		MJE29C		TIP31C
MJ8500		BU208A	MJE30		TIP32B
MJ8501		BU208A	MJE30A		TIP32B
MJ8502		BU208A	MJE30B		TIP32B
MJ8503		BU208A	MJE30C		TIP32C
MJ8504		BU208A	MJE31		TIP31C
MJ10000		MJ10005	MJE31A		TIP31C
MJ10001		MJ10005	MJE31B		TIP31C
MJ10003		BU931P	MJE31C		TIP31C
MJ10004		MJ10005	MJE32		TIP32B
MJ10005	MJ10005		MJE32A		TIP32B
MJ10012		BU931	MJE32B		TIP32B
MJ11011		MJ11013	MJE32C		TIP32C
MJ11012		MJ11014	MJE33		TIP41B
MJ11013	MJ11013		MJE33A		TIP41B
MJ11014	MJ11014		MJE33B		TIP41B
MJ11015		2N6287	MJE33C		TIP41C
MJ11016	MJ11016		MJE34		TIP42B
MJ12002		BU208A	MJE34A		TIP42B
MJ12003		BU208A	MJE34B		TIP42B
MJ12004		BU208A	MJE34C		TIP42C
MJ13010		2N6547	MJE41		TIP41B
MJ13014		BUX80	MJE41A		TIP41B
MJ13015		BUX80	MJE41B		TIP41B
MJ13018		BUX98	MJE41C		TIP41C
MJ13019		BUX98	MJE42		TIP42B
MJ13330		BUX41	MJE42A		TIP42B
MJ13331		BUX41	MJE42B		TIP42B
MJ13332		BUX98	MJE42C		TIP42C
MJ13333		BUX98	MJE47		TIP47
MJ13334		BUX98	MJE48		TIP48
MJ13335		BUX48	MJE49		TIP49
MJ15001		BUV50	MJE492		2N5195

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
MJE53		ST13005	MJE520K		TIP31C
MJE53T		ST13005	MJE521	MJE521	TIP31C
MJE101		MJE2955T	MJE521K		BD678A
MJE102		MJE2955T	MJE700		TIP115
MJE103		MJE2955T	MJE700T		BD680A
MJE104		MJE2955T	MJE701		BD680A
MJE105		TIP42B	MJE701T		BD680A
MJE170		MJE172	MJE702		TIP126
MJE171		MJE172	MJE702T		BD680A
MJE172	MJE172		MJE703		TIP126
MJE180		MJE182	MJE703T		2N4920
MJE181		MJE182	MJE710		2N4920
MJE182	MJE182		MJE711		2N4920
MJE200	MJE200	BD435	MJE712		BD235
MJE201		MJE3055T	MJE720		BD237
MJE202		MJE3055T	MJE721		BD237
MJE203		MJE3055T	MJE722		MJE802
MJE204		MJE3055T	MJE800		TIP110
MJE205		MJE3055T	MJE800T		BD679
MJE205K		TIP41B	MJE801		TIP120
MJE210	MJE210		MJE801T		
MJE220		MJE182	MJE802	MJE802	TIP121
MJE221		MJE182	MJE802T		BD679
MJE222		MJE182	MJE803		TIP121
MJE223		MJE182	MJE803T		TIP106
MJE224		MJE182	MJE1090		TIP107
MJE225		MJE182	MJE1091		TIP106
MJE230		MJE172	MJE1092		TIP107
MJE231		MJE172	MJE1093		TIP102
MJE232		MJE172	MJE1100		TIP102
MJE233		MJE172	MJE1101		TIP102
MJE234		MJE172	MJE1102		TIP102
MJE243		BD237	MJE1103		BD912
MJE253		BD238	MJE1290		BD912
MJE270		MJE182	MJE1291		2N6487
MJE340	MJE340		MJE1660		2N6487
MJE340K		MJE340	MJE1661		TIP42B
MJE341K		MJE340	MJE2010		TIP42B
MJE344K		MJE340	MJE2011		TIP41B
MJE345		2N5657	MJE2020		TIP41B
MJE350	MJE350		MJE2021		BD435
MJE370		BD436	MJE2050		MJE3055T
MJE370K		BD436	MJE2055		TIP125
MJE371	MJE371	BD436	MJE2090		TIP125
MJE371K		BD436	MJE2091		TIP126
MJE482		2N5191	MJE2092		TIP126
MJE483		2N5191	MJE2093		TIP120
MJE484		2N5192	MJE2100		TIP120
MJE488		2N5191	MJE2101		TIP121
MJE493		2N5195	MJE2102		TIP121
MJE494		2N5195	MJE2103		TIP121
MJE520		MJE521	MJE2150		MJE210

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
MJE2160		TIP48	MJE5231		D45H8
MJE2370		TIP32B	MJE5655		TIP47
MJE2371		TIP32B	MJE5656		TIP48
MJE2482		TIP31C	MJE5657		TIP49
MJE2483		TIP31C	MJE5852	MJE5852	
MJE2490		TIP32B	MJE5960		2N6490
MJE2491		TIP32B	MJE5974		TIP42B
MJE2520		TIP31C	MJE5975		TIP42B
MJE2521		TIP31C	MJE5976		TIP42B
MJE2522		TIP31C	MJE5977		TIP41B
MJE2523		TIP31C	MJE5978		TIP41B
MJE2801		MJE3055T	MJE5979		TIP41B
MJE2801K		MJE3055T	MJE5980		2N6490
MJE2801T		MJE3055T	MJE5981		2N6490
MJE2901		MJE2955T	MJE5982		BD912
MJE2901K		MJE2955T	MJE5983		2N6487
MJE2901T		MJE2955T	MJE5984		2N6487
MJE2955		MJE2955T	MJE5985		2N6488
MJE2955K		MJE2955T	MJE6045		TIP102
MJE2955T	MJE2955T		MJE6045		TIP102
MJE3055		MJE3055T	MJE8502		BU508A
MJE3055K		MJE3055T	MJE8503		BU508A
MJE3055T	MJE3055T		MJE13002		ST13003
MJE3300		BD681	MJE13003		ST13003
MJE3301		BD681	MJE13004		ST13005
MJE3302		BD681	MJE13005		ST13005
MJE3310		2N6036	MJE13006		ST13007
MJE3311		2N6036	MJE13007		ST13007
MJE3312		2N6036	MJE13007A	MJE13007A	
MJE3370		TIP30A	MJE13008		MJE13009
MJE3371		TIP30C	MJE13009	MJE13009	
MJE3439	MJE3439	2N5657	MJE13070		BUL381 / 2
MJE3440	MJE3440		MJE13071		BUL381 / 2
MJE3520		TIP29A	MJE15020		ST13007
MJE3521		TIP29C	MJE16002		BUL381 / 2
MJE3738		TIP47	MJE18002		BUL310
MJE3739		TIP48	MJE18004		BUL310
MJE4918		TIP32B	MJE18006		BUL410
MJE4919		TIP32B	MJE18008		BUL510
MJE4920		TIP32B	MJE18204		BUL310
MJE4921		TIP31C	MJE18604D2		BUL216
MJE4922		TIP31C	MJE18605D2		BUL216
MJE4923		TIP31C	MJH12004		BU508A
MJE5133		TIP32B	MJW16212		BUH1015
MJE5190		TIP31C	NSD102		BD237
MJE5191		TIP31C	NSD103		BD237
MJE5192		TIP31C	NSD104		BD237
MJE5194		TIP32B	NSD105		BD237
MJE5195		TIP32C	NSD106		BD237
MJE5220		D44H11	NSD131		MJE340
MJE5221		D44H11	NSD132		MJE340
MJE5230		D45H8	NSD133		MJE340

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
NSD134		MJE340	NSP696		TIP125
NSD135		MJE340	NSP696		TIP125
NSD151		MJE802	NSP696A		TIP106
NSD152		MJE802	NSP697		TIP120
NSD202		2N4920	NSP697A		TIP102
NSD203		2N4920	NSP697A		TIP102
NSD204		2N4920	NSP698A		TIP106
NSD205		2N4920	NSP699		TIP121
NSD206		2N4920	NSP699A		TIP102
NSD3439		2N5657	NSP699A		TIP102
NSD3440		2N5657	NSP700		TIP126
NSE170		MJE172	NSP700A		TIP106
NSE171		MJE172	NSP701		TIP122
NSE180		MJE182	NSP702		TIP127
NSE181		MJE182	NSP2010		TIP42B
NSP41		TIP41B	NSP2011		TIP42B
NSP41B		TIP41B	NSP2021		TIP41B
NSP41C		TIP41C	NSP2090		TIP125
NSP42		TIP42B	NSP2091		TIP125
NSP42A		TIP42B	NSP2092		TIP126
NSP42B		TIP42B	NSP2093		TIP126
NSP42C		TIP42C	NSP2100		TIP120
NSP4918		TIP32B	NSP2101		TIP120
NSP105		TIP42B	NSP2102		TIP121
NSP205		TIP41B	NSP2103		TIP121
NSP370		TIP32B	NSP2370		TIP32B
NSP371		TIP32B	NSP2480		TIP31C
NSP520		TIP31C	NSP2481		TIP31C
NSP521		TIP31C	NSP2490		TIP32B
NSP575		TIP31C	NSP2491		TIP32B
NSP576		TIP32B	NSP2520		TIP31C
NSP577		TIP31C	NSP2955		MJE2955T
NSP578		TIP32B	NSP3054		TIP31C
NSP579		TIP31C	NSP3055		MJE3055T
NSP580		TIP32B	NSP4919		TIP32B
NSP581		TIP31C	NSP4920		TIP32B
NSP582		TIP32C	NSP4921		TIP31C
NSP585		TIP31C	NSP4922		TIP31C
NSP586		TIP32B	NSP4923		TIP31C
NSP587		TIP31C	NSP5190		TIP31C
NSP588		TIP32B	NSP5191		TIP31C
NSP589		TIP31C	NSP5192		TIP31C
NSP590		TIP32B	NSP5193		TIP32B
NSP595		TIP31C	NSP5194		TIP32B
NSP596		TIP32B	NSP5195		TIP32C
NSP597		TIP31C	NSP5974		TIP42B
NSP598		TIP32B	NSP5975		TIP42B
NSP599		TIP31C	NSP5976		TIP42B
NSP600		TIP32B	NSP5977		TIP41B
NSP695		TIP120	NSP5978		TIP41B
NSP695A		TIP102	NSP5979		TIP41B
NSP695A		TIP102	NSP5980		2N6490

**Bipolar Transistors Cross Reference**

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
NSP5981		2N6490	RCA31		TIP31C
NSP5982		BD912	RCA31A		TIP31C
NSP5983		2N6487	RCA31B		TIP31C
NSP5984		2N6487	RCA31C		TIP31C
NSP5985		2N6488	RCA32		TIP32B
PMD10K-40		2N6059	RCA32A		TIP32B
PMD10K-60		2N6059	RCA32B		TIP32B
PMD10K-100		2N6059	RCA32C		TIP32C
PMD11K-40		BDX88C	RCA41		TIP41B
PMD11K-60		BDX88C	RCA41A		TIP41B
PMD11K-100		BDX88C	RCA41B		TIP41B
PMD12K-30		MJ3001	RCA41C		TIP41C
PMD12K-40		MJ3001	RCA42		TIP42B
PMD12K-60		MJ3001	RCA42A		TIP42B
PMD12K-100		2N6059	RCA42B		TIP42B
PMD13K-40		MJ2501	RCA42C		TIP42C
PMD13K-60		MJ2501	RCA120		TIP120
PMD13K-80		MJ2501	RCA121		TIP121
PMD13K-100		BDX88C	RCA122		TIP122
PMD1600K		2N6284	RCA125		TIP125
PMD1601K		2N6284	RCA126		TIP126
PMD1602K		2N6284	RCA1000		MJ3001
PMD1603K		2N6284	RCA1001		MJ3001
PMD16K -40		2N6284	RCA3054		TIP31C
PMD16K-60		2N6284	RCA3055		2N6487
PMD16K-100		2N6284	RCA8203		TIP106
PMD1700K		2N6287	RCA8350		MJ2501
PMD1701K		2N6287	RCA8767		2N6547
PMD1702K		2N6287	RCA8767A		2N6547
PMD1703K		2N6287	RCA8767B		2N6547
PMD17K-40		2N6287	RCA9113		2N6547
PMD17K-60		2N6284	RCA91136		2N6547
PMD17K-80		2N6287	RCA9113A		2N6547
PMD17K-100		2N6287	RCA11203A		BDX54B
RCA1C05		TIP41B	RCP111A		MJE340
RCA1C06		TIP42C	RCP111C		MJE340
RCA1C07		MJE3055T	RCP111D		MJE340
RCA1C08		MJE2955T	RCP113A		MJE340
RCA1C09		MJE3055T	RCP113B		MJE340
RCA1C10		BD243B	RCP113C		MJE340
RCA1C11		2N6107	RCP113D		MJE340
RCA1C14		BD243B	RCP115B		MJE340
RCA1C15		2N6388	RCP117B		MJE340
RCA1C16		BDX54B	RCP131C		MJE340
RCA29		TIP31C	RCP131D		MJE340
RCA29A		TIP31C	RCP133C		MJE340
RCA29B		TIP31C	RCP133D		MJE340
RCA29C		TIP31C	RCP135		BD237
RCA30		TIP32B	RCP135B		MJE340
RCA30A		TIP32B	RCP137		BD237
RCA30B		TIP32B	RCP137B		MJE340
RCA30C		TIP32C	RCS617		BDW51C

### Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
RCS618	S2000AFI	BDW52C	SDT3406		2N5339
S2000AF		S2000AFI	SDT3407		2N5339
S2000AFI		S2000AFI	SDT3408		2N5339
S2000FI		S2000AFI	SDT3421		2N5339
S2000N		S2000AFI	SDT3422		2N5339
S2055AF		THD218DHI	SDT3423		2N5339
S2055N		THD218DHI	SDT3424		2N5339
SDD13000		BUL128	SDT3425		2N5339
SDM6000		BU931	SDT3426		2N5339
SDM6001		BU931	SDT3427		2N5339
SDM6002		BU931	SDT3428		2N5339
SDM6003		BU931	SDT3501		BSS44
SDM20301		2N6284	SDT3502		BSS44
SDM20302		2N6284	SDT3506		BSS44
SDM20303		2N6284	SDT3776		BSS44
SDM20304		2N6287	SDT4451		2N5339
SDM20311		2N6284	SDT4452		2N5339
SDM20312		2N6284	SDT4453		2N5339
SDM20313		2N6284	SDT4454		2N5339
SDM20314		2N6287	SDT4455		2N5339
SDM20321		2N6284	SDT4456		2N5339
SDM20322		2N6284	SDT4483		2N5339
SDM20323		2N6284	SDT5101		TIP41B
SDM20324		2N6287	SDT5102		TIP41B
SDM21301		2N6287	SDT5103		TIP41B
SDM21302		2N6287	SDT5111		TIP42B
SDM21303		2N6287	SDT5112		TIP42B
SDM21304		2N6287	SDT5113		TIP42B
SDM21311		2N6287	SDT5501		2N5339
SDM21312		2N6287	SDT5502		2N5339
SDM21313		2N6287	SDT5503		2N5339
SDM21314		2N6287	SDT5504		2N5339
SDN1020		MJ3001	SDT5506		2N5339
SDN4040		MJ10005	SDT5506		2N5339
SDN4045		MJ10005	SDT5507		2N5339
SDN6000		MJ10005	SDT5509		2N5339
SDN6001		MJ10005	SDT5511		2N5339
SDN6051		MJ10005	SDT5512		2N5339
SDN6060		MJ10005	SDT5513		2N5339
SDN6062		MJ10005	SDT5514		2N5339
SDT425		BUX48A	SDT6306		2N5339
SDT1056		BUX48A	SDT6309		2N5339
SDT1057		BUX48A	SDT6310		2N5339
SDT1058		BUX48A	SDT6311		2N5339
SDT1059		BUX48A	SDT6312		2N5339
SDT1061		BUX48A	SDT6313		2N5339
SDT1062		BUX48A	SDT6314		2N5339
SDT1064		BUX48A	SDT6315		2N5339
SDT3401		2N5339	SDT6316		2N5339
SDT3402		2N5339	SDT6408		2N5339
SDT3403		2N5339	SDT6409		2N5339
SDT3405		2N5339	SDT6410		2N5339



## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
SDT6411		2N5339	SGS112		MJD112
SDT6412		2N5339	SGS115		SGS125
SDT6413		2N5339	SGS120		MJD122
SDT6414		2N5339	SGS121		MJD122
SDT6415		2N5339	SGS122		MJD122
SDT6416		2N5339	SGS125	SGS125	
SDT7603		BUX10	SGS3439		2N5657
SDT7604		BUX10	SGS3440		MJE3440
SDT7609		BUX10	SGS13003		ST13003
SDT7610		BUX10	SGS13007	SGS13007	
SDT7612		BUX98	SGSD100	SGSD100	
SDT7731		BDW51C	SGSD200	SGSD200	
SDT7732		BDW51C	SGSF313		BUL310
SDT7733		BDW51C	SGSF313PI	SGSF313PI	
SDT9201		2N3055	SGSF321		BUL310
SDT9205		2N3055	SGSF323		BUL310
SDT9206		2N3055	SGSF324	SGSF324	
SDT9209		BUV50	SGSF341	SGSF341	BUT12A
SDT9210		2N3055	SGSF343		BUL510
SDT9307		BDW51C	SGSF344	SGSF344	
SDT9308		BDW51C	SGSF441	SGSF441	
SDT9309		BDW51C	SGSF443		THD215HI
SDT9701		2N5886	SGSF444		THD215HI
SDT9704		2N5682	SGSF445		THD215HI
SDT9707		2N3055	SGSF461	SGSF461	
SDT12301		2N5038	SGSF463	SGSF463	
SDT12302		2N5339	SGSF464		THD215HI
SDT12303		2N5339	SGSF465		THD215HI
SDT12305		2N5339	SGSF561		BUX48
SDT12306		2N5339	SGSF562		BUF420M
SDT12307		2N5339	SGSF661		BUX98
SDT13301		2N6547	SGSF663		BUX98A
SDT13302		2N6547	SGSF664		BUX98C
SDT13303		2N6547	SGSF665		BUX98C
SDT13305		BUX48	SGSIF341		BUT12AFI
SE9300		BDW93B	SGSIF343		BUT12AFI
SE9301		BDW93B	SGSIF344	SGSIF344	
SE9302		BDW93C	SGSIF345		SGSIF344
SE9303		BDX87C	SGSIF441		BUV48AFI
SE9304		BDX87C	SGSIF443		BUV48AFI
SE9305		BDX87C	SGSIF444	SGSIF444	
SE9306		2N6287	SGSIF445		SGSIF444
SE9307		2N6284	SGSIF461	SGSIF461	
SE9308		2N6287	SGSIF463		SGSIF461
SE9400		BDW94B	SGSIF464		THD215HI
SE9401		BDW94B	SGSIF465	SGSIF465	THD215HI
SE9402		BDW94C	ST13003	ST13003	
SE9403		BDX88C	ST13005	ST13005	
SE9404		BDX88C	ST13007	ST13007	
SE9405		BDX88C	ST13007D	ST13007D	
SGS110		MJD112	STF6045DV		ESM6045DV
SGS111		MJD112	STF8045AV		ESM6045AV

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
SVT100-5C		BDW51C	TIP35C	TIP35C	
SVT350-3		BUX48A	TIP36		TIP36B
SVT400-3		BUX48A	TIP36A	TIP36A	TIP36B
SVT400-5C		BUX48A	TIP36B	TIP36B	
SVT450-3		BUX48A	TIP36C	TIP36C	
SVT450-3C		BUX48	TIP41		TIP41A
SVT6000		MJ10005	TIP41A	TIP41A	
SVT6001		MJ10005	TIP41B	TIP41B	
SVT6002		MJ10005	TIP41C	TIP41C	
SVT6060		MJ10005	TIP42		TIP42A
SVT6061		MJ10005	TIP42A	TIP42A	
SVT6062		MJ10005	TIP42B	TIP42B	
SVT7525		BUX48	TIP42C	TIP42C	
SVT9522		BUX48	TIP47	TIP47	
TD13004		BULD38-1	TIP48	TIP48	
TD13005		BULD38-1	TIP49	TIP49	
TE13005D		BUL381D / 2D	TIP50	TIP50	
TE13007		ST13007	TIP54		BU426A
TE13009		BUL87	TIP61		TIP31C
THD200FI	THD200FI		TIP61A		TIP31C
THD215HI	THD215HI		TIP61B		TIP31C
THD218DHI	THD218DHI		TIP61C		TIP31C
THD277HI	THD277HI		TIP62		TIP32C
THD300		BUH1015	TIP62A		TIP32C
THD400		BUH1215	TIP62B		TIP32C
TIP29		TIP29A	TIP62C		TIP32C
TIP29A	TIP29A		TIP63		TIP47
TIP29B		TIP29C	TIP64		TIP48
TIP29C	TIP29C		TIP73		BD909
TIP30		TIP30A	TIP73A		BD909
TIP30A	TIP30A		TIP73B		BD909
TIP30B	TIP30B	TIP30C	TIP73C		BD911
TIP30C	TIP30C		TIP74		BD910
TIP31		TIP31A	TIP74A		BD910
TIP31A	TIP31A		TIP74B		BD910
TIP31B		TIP31C	TIP74C		BD912
TIP31C	TIP31C		TIP75		ST13005
TIP32	TIP32	TIP32A	TIP75A		ST13005
TIP32A	TIP32A		TIP75B		ST13005
TIP32B	TIP32B		TIP75C		ST13005
TIP32C	TIP32C		TIP100	TIP100	
TIP33		TIP33C	TIP101		TIP102
TIP33A		TIP33C	TIP101		TIP102
TIP33B		TIP33C	TIP102	TIP102	
TIP33C	TIP33C		TIP105	TIP105	
TIP34		TIP34C	TIP106	TIP106	
TIP34A		TIP34C	TIP107	TIP107	
TIP34B		TIP34C	TIP110	TIP110	
TIP34C	TIP34C		TIP111		TIP112
TIP35		TIP35C	TIP112	TIP112	
TIP35A	TIP35A	TIP35C	TIP115	TIP115	
TIP35B		TIP35C	TIP116		TIP117

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
TIP117	TIP117		TIP662		BU931
TIP120	TIP120		TIP2955	TIP2955	
TIP121	TIP121		TIP2955T		MJE2955T
TIP122	TIP122		TIP3055	TIP3055	
TIP125	TIP125		TIP3055T		MJE3055T
TIP126	TIP126		TIPL763		BUV47A
TIP127	TIP127		TIPL763A		BUV47A
TIP130		TIP131	TIPL765		BUV48A
TIP131	TIP131		TIPL765A		BUV48A
TIP132	TIP132		TIPL760		BUL381 / 2
TIP135	TIP135		TIPL760A		BUL310
TIP136		TIP137	TIPL761		SGSF441
TIP137	TIP137		TIPL761A		SGSF441
TIP140	TIP140	TIP141	TIPL762		SGSF441
TIP140T		TIP142T	TIPL762A		SGSF441
TIP141	TIP141		TIPL770		BUL138
TIP141FI	TIP141FI		TIPL790		BDX53F
TIP141T		TIP142T	TIPL790A		BDX53F
TIP142	TIP142		TIPL791		BUL310
TIP142T	TIP142T		TIPL791A		BUL310
TIP145		TIP146	TIPL1300A		BUL138
TIP145T		TIP106	TIPL13005		BUL138
TIP146		TIP147			
TIP146FI	TIP146FI				
TIP147	TIP147				
TIP147T	TIP147T				
TIP150		BU911			
TIP151		BU911			
TIP152		BU911			
TIP510		BUX41			
TIP512		BUX41			
TIP517		BUX10			
TIP525		BUX41			
TIP526		BUX41			
TIP545		MJ2955			
TIP546		MJ2955			
TIP551		BU208A			
TIP552		BU208A			
TIP553		BU208A			
TIP600		TIP102			
TIP601		TIP102			
TIP605		TIP106			
TIP606		TIP106			
TIP607		TIP107			
TIP620		TIP120			
TIP621		TIP121			
TIP622		TIP122			
TIP625		TIP125			
TIP626		TIP126			
TIP627		TIP127			
TIP640		MJ3001			
TIP641		MJ3001			