

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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|-------------------|----------------|----------------------|-------------------|----------------|----------------------|
| 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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|-------------------|----------------|----------------------|-------------------|----------------|----------------------|
| 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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|-------------------|----------------|----------------------|-------------------|----------------|----------------------|
| 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 |

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|-------------------|----------------|----------------------|-------------------|----------------|----------------------|
| 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 | 2SB518 | | MJ2955 |
| 2SA771 | | 2N6107 | 2SB520 | | TIP42A |
| 2SA775 | | TIP30C | 2SB521 | | TIP42A |
| 2SA779 | | BD438 | 2SB522 | | TIP42A |
| 2SA780 | | BD440 | 2SB523 | | 2N5193 |
| 2SA780A | | BD442 | 2SB524 | | 2N5195 |
| 2SA795 | | MJE350 | 2SB526 | | MJE350 |
| 2SA807 | | BDW52C | 2SB527 | | MJE350 |
| 2SA808 | | BDW52C | 2SB528 | | MJE350 |
| 2SA814 | | TIP32C | 2SB529 | | 2N5193 |
| 2SA815 | | TIP30C | 2SB531 | | BDW52C |
| | | | 2SB532 | | BDW52C |

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|-------------------|----------------|----------------------|-------------------|----------------|----------------------|
| 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 |

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|-------------------|----------------|----------------------|-------------------|----------------|----------------------|
| 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 |

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| 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 | | | |

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| 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 |

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| 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 |

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| 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 |

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| 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 | |
| BU931RPF1 | | 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 |
| BU932RPF1 | | 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 |
| BUR22 | | BUV22 | BUV40 | | BUX41 |
| BUR24 | | BUX98 | BUV41 | | BUX41 |
| BUR50 | | BUR50S | BUV42 | | BUX48 |
| BUR50S | BUR50S | | BUV42A | | BUX48 |
| BUR51 | BUR51 | | BUV44 | | BUX48A |
| 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 |
| BUS46P | | BUL381 / 2 | BUV47AI | | BUV48A |
| 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 | BUV48CFI | | BUV48CFI |
| BUT14 | | MJ10005 | BUV48CI | | |
| BUT18 | | BUL510 | BUV48FI | BUV48FI | |
| BUT18A | | BUL510 | BUV48I | | BUV48FI |
| BUT30V | BUT30V | | BUV50 | BUV50 | |
| BUT32V | BUT32V | | BUV51 | | BUX12 BUX12 BUX48 |
| BUT70 | BUT70 | | BUV52 | | BUL67 |
| BUT70I | BUT70I | | BUV52A | | BUW38 |
| BUT90 | BUT90 | | BUV56 | | |
| BUT92 | BUT92 | | BUV60 | | |
| BUT92A | BUT92A | | BUV61 | BUV61 | |
| | | | 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 |

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

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| 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 |

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| 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 |

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| 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 |

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| 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 |

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| 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 | | | |