

BIPOLAR TRANSISTORS CROSS REFERENCE

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

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

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

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

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

BIPOLAR TRANSISTORS CROSS REFERENCE

| Industry standard | SGS-THOMSON replacement | SGS-THOMSON nearest preferred | Industry standard | SGS-THOMSON replacement | SGS-THOMSON nearest preferred |
|-------------------|-------------------------|-------------------------------|-------------------|-------------------------|-------------------------------|
| 2N6536 | 2N6547 | TIP102 | 2SA623 | | BD238 |
| 2N6536 | | TIP102 | 2SA624 | | BD238 |
| 2N6544 | | BUX48A | 2SA626 | | BDW52C |
| 2N6545 | | BUX80 | 2SA627 | | BDW52C |
| 2N6546 | | 2N6547 | 2SA633 | | BD238 |
| 2N6547 | | | 2SA634 | | BD238 |
| 2N6548 | | MJE802 | 2SA635 | | BD238 |
| 2N6549 | | MJE802 | 2SA636 | | BD238 |
| 2N6551 | | BD237 | 2SA645 | | MJE182 |
| 2N6552 | | BD237 | 2SA646 | | BD238 |
| 2N6553 | | BD237 | 2SA647 | | BD238 |
| 2N6554 | | BD238 | 2SA656 | | MJ2955 |
| 2N6556 | | BD238 | 2SA657 | | BDW52C |
| 2N6557 | | MJE340 | 2SA658 | | BDW52C |
| 2N6558 | | MJE340 | 2SA663 | | BDW52C |
| 2N6559 | | MJE340 | 2SA670 | | TIP32B |
| 2N6569 | | BDW51C | 2SA671 | | BD242B |
| 2N6573 | | 2N6547 | 2SA679 | | MJ2955 |
| 2N6574 | | 2N6547 | 2SA680 | | BDW52C |
| 2N6575 | | BUX48 | 2SA682 | | BD238 |
| 2N6576 | | 2N6577 | 2SA696 | | MJE350 |
| 2N6577 | | 2N6577 | 2SA699 | | TIP30A |
| 2N6594 | | | BDW52C | | 2SA699A |
| 2N6648 | | BDX88C | 2SA700 | | TIP30A |
| 2N6649 | | BDX88C | 2SA703 | | BD238 |
| 2N6666 | | BDX54B | 2SA714 | | MJ2955 |
| 2N6667 | BDX54B | 2SA715 | MJE172 | | |
| 2N6668 | 2N6668 | 2SA738 | MJE172 | | |
| 2N6673 | | BUX80 | 2SA743 | BD238 | |
| 2N6675 | | BUX48A | 2SA748 | BD242B | |
| 2N6676 | | BUF420M | 2SA755 | BD242B | |
| 2N6677 | | BUF420M | 2SA756 | BDW52C | |
| 2N6678 | | BUF420M | 2SA757 | MJ2955 | |
| 2N6702 | | BUV26 | 2SA758 | MJ2955 | |
| 2SA489 | | BD242B | 2SA768 | BD242B | |
| 2SA490 | | BD242B | 2SA769 | BD242B | |
| 2SA496 | | BD238 | 2SA770 | 2N6107 | |
| 2SA505 | BD238 | 2SA771 | 2N6107 | | |

BIPOLAR TRANSISTORS CROSS REFERENCE

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

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

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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

BIPOLAR TRANSISTORS CROSS REFERENCE

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