

## Bipolar Transistors Cross Reference

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

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

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

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

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

## Bipolar Transistors Cross Reference

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

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



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



# Bipolar Transistors Cross Reference

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

## Bipolar Transistors Cross Reference

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

## Bipolar Transistors Cross Reference

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

## Bipolar Transistors Cross Reference

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

# Bipolar Transistors Cross Reference

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

## Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
BD176-10	BD179   <				

# Bipolar Transistors Cross Reference

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



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

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

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

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

## Bipolar Transistors Cross Reference

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

# Bipolar Transistors Cross Reference

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

## Bipolar Transistors Cross Reference

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



## Bipolar Transistors Cross Reference

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

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

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

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

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

## Bipolar Transistors Cross Reference

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

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



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

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

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

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

## Bipolar Transistors Cross Reference

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

# Bipolar Transistors Cross Reference

INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED	INDUSTRY STANDARD	ST REPLACEMENT	ST NEAREST PREFERRED
<a href="#">TIP117</a>	<a href="#">TIP117</a>		<a href="#">TIP662</a>		<a href="#">BU931</a>
<a href="#">TIP120</a>	<a href="#">TIP120</a>		<a href="#">TIP2955</a>	<a href="#">TIP2955</a>	
<a href="#">TIP121</a>	<a href="#">TIP121</a>		<a href="#">TIP2955T</a>		<a href="#">MJE2955T</a>
<a href="#">TIP122</a>	<a href="#">TIP122</a>		<a href="#">TIP3055</a>	<a href="#">TIP3055</a>	
<a href="#">TIP125</a>	<a href="#">TIP125</a>		<a href="#">TIP3055T</a>		<a href="#">MJE3055T</a>
<a href="#">TIP126</a>	<a href="#">TIP126</a>		<a href="#">TIPL763</a>		<a href="#">BUV47A</a>
<a href="#">TIP127</a>	<a href="#">TIP127</a>		<a href="#">TIPL763A</a>		<a href="#">BUV47A</a>
<a href="#">TIP130</a>		<a href="#">TIP131</a>	<a href="#">TIPL765</a>		<a href="#">BUV48A</a>
<a href="#">TIP131</a>	<a href="#">TIP131</a>		<a href="#">TIPL765A</a>		<a href="#">BUV48A</a>
<a href="#">TIP132</a>	<a href="#">TIP132</a>		<a href="#">TIPL760</a>		<a href="#">BUL381 / 2</a>
<a href="#">TIP135</a>	<a href="#">TIP135</a>		<a href="#">TIPL760A</a>		<a href="#">BUL310</a>
<a href="#">TIP136</a>		<a href="#">TIP137</a>	<a href="#">TIPL761</a>		<a href="#">SGSF441</a>
<a href="#">TIP137</a>	<a href="#">TIP137</a>		<a href="#">TIPL761A</a>		<a href="#">SGSF441</a>
<a href="#">TIP140</a>	<a href="#">TIP140</a>	<a href="#">TIP141</a>	<a href="#">TIPL762</a>		<a href="#">SGSF441</a>
<a href="#">TIP140T</a>		<a href="#">TIP142T</a>	<a href="#">TIPL762A</a>		<a href="#">SGSF441</a>
<a href="#">TIP141</a>	<a href="#">TIP141</a>		<a href="#">TIPL770</a>		<a href="#">BUL138</a>
<a href="#">TIP141FI</a>	<a href="#">TIP141FI</a>		<a href="#">TIPL790</a>		<a href="#">BDX53F</a>
<a href="#">TIP141T</a>		<a href="#">TIP142T</a>	<a href="#">TIPL790A</a>		<a href="#">BDX53F</a>
<a href="#">TIP142</a>	<a href="#">TIP142</a>		<a href="#">TIPL791</a>		<a href="#">BUL310</a>
<a href="#">TIP142T</a>	<a href="#">TIP142T</a>		<a href="#">TIPL791A</a>		<a href="#">BUL310</a>
<a href="#">TIP145</a>		<a href="#">TIP146</a>	<a href="#">TIPL13004</a>		<a href="#">BUL138</a>
<a href="#">TIP145T</a>		<a href="#">TIP106</a>	<a href="#">TIPL13005</a>		<a href="#">BUL138</a>
<a href="#">TIP146</a>		<a href="#">TIP147</a>			
<a href="#">TIP146FI</a>	<a href="#">TIP146FI</a>				
<a href="#">TIP147</a>	<a href="#">TIP147</a>				
<a href="#">TIP147T</a>	<a href="#">TIP147T</a>				
<a href="#">TIP150</a>		<a href="#">BU911</a>			
<a href="#">TIP151</a>		<a href="#">BU911</a>			
<a href="#">TIP152</a>		<a href="#">BU911</a>			
<a href="#">TIP510</a>		<a href="#">BUX41</a>			
<a href="#">TIP512</a>		<a href="#">BUX41</a>			
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<a href="#">TIP525</a>		<a href="#">BUX41</a>			
<a href="#">TIP526</a>		<a href="#">BUX41</a>			
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<a href="#">TIP621</a>		<a href="#">TIP121</a>			
<a href="#">TIP622</a>		<a href="#">TIP122</a>			
<a href="#">TIP625</a>		<a href="#">TIP125</a>			
<a href="#">TIP626</a>		<a href="#">TIP126</a>			
<a href="#">TIP627</a>		<a href="#">TIP127</a>			
<a href="#">TIP640</a>		<a href="#">MJ3001</a>			
<a href="#">TIP641</a>		<a href="#">MJ3001</a>			