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IC to 80 A . . . PT to 300 W . . . VCE to 170 V  
HOMETAXIAL-BASE N-P-N POWER TYPES

$I_C = 1.5$ A max. $P_T = 8.75$ W max. (TO-38) <sup>a</sup>	$I_C = 1.5$ A max. $P_T = 8.75$ W max. (TO-38) <sup>a</sup>	$I_C = 3.5$ A max. $P_T = 10$ W max. (TO-38) <sup>a</sup>	$I_C = 4$ A max. $P_T = 50$ W max. (TO-66) <sup>**</sup>	$I_C = 4$ A max. $P_T = 36$ W max. VERSAWATT (TO-220)	$I_C = 3$ A max. $P_T = 50$ W max. (TO-66) <sup>**</sup>	$I_C = 3$ A max. $P_T = 36$ W max. VERSAWATT (TO-220)	$I_C = 7$ A max. $P_T = 50$ W max. VERSAWATT (TO-220)	$I_C = 15$ A max. $P_T = 150$ W max. (TO-3)	$I_C = 16$ A max. $P_T = 75$ W max. VERSAWATT (TO-220)	$I_C = 10$ A max. $P_T = 150$ W max. (TO-3)	$I_C = 30$ A max. $P_T = 220$ W max. (TO-3)	$I_C = 16$ A max. $P_T = 250$ W max. (TO-3)	$I_C = 80$ A max. $P_T = 300$ W max. (Modified TO-3)
90 x 90 <sup>A</sup>	90 x 90	90 x 90	130 x 130	130 x 130	130 x 130	130 x 130	150 x 150	180 x 180	180 x 180	180 x 180	250 x 250	250 x 250	380 x 380
Family Designation													
2N1482	40349	2N5786	2N3054	2N5298	2N3441	2N6478	2N5496	2N3055	2N6103	2N3442	2N3771	2N3773	2N5578
<b>40347</b> $V_{CEV(sus)} = 60$ V $h_{FE} = 25-100$ @ 450 mA $f_T = 1.5$ MHz typ.  File No. 88 E	<b>40349</b> $V_{CEV(sus)} = 160$ V $h_{FE} = 30-125$ @ 150 mA $f_T = 1.5$ MHz typ.  File No. 88 E	<b>2N5786</b> $V_{CEV(sus)} = 45$ V $h_{FE} = 20-100$ @ 1.6 A $f_T = 1$ MHz min.  CT File No. 413 E	<b>40250</b> $V_{CEV(sus)} = 50$ V $h_{FE} = 25-100$ @ 1.5 A $f_T = 1.2$ MHz typ. $P_T = 29$ W  CT File No. 112	<b>2N5295</b> <b>2N5296</b> $V_{CEV(sus)} = 50$ V $h_{FE} = 30-120$ @ 1 A $f_T = 0.8$ MHz min.  CT File No. 322	<b>2N6263</b> $V_{CEV(sus)} = 130$ V $h_{FE} = 20-100$ @ 0.5 A $f_T = 1.2$ MHz typ. $P_T = 20$ W  File No. 529	<b>2N6477</b> $V_{CEV(sus)} = 130$ V $h_{FE} = 20-100$ @ 1 A $f_T = 0.8$ MHz min.  File No. 680	<b>2N5491</b> <b>2N5490</b> $V_{CEV(sus)} = 50$ V $h_{FE} = 20-100$ @ 2 A $f_T = 0.8$ MHz min.  CT File No. 353	<b>2N6371</b> $V_{CEV(sus)} = 50$ V $h_{FE} = 15-60$ @ 8 A $f_T = 1$ MHz typ. $P_T = 117$ W  CT File No. 607	<b>2N6102</b> <b>2N6103</b> $V_{CEV(sus)} = 45$ V $h_{FE} = 15-60$ @ 8 A $f_T = 0.8$ MHz min. $I_C = 16$ A max.  File No. 485	<b>2N4347</b> $V_{CEV(sus)} = 140$ V $h_{FE} = 15-60$ @ 2 A $f_T = 0.8$ MHz typ. $P_T = 100$ W  CT File No. 528	<b>2N6257</b> $V_{CEV(sus)} = 45$ V $h_{FE} = 15-75$ @ 8 A $f_T = 0.6$ MHz min. $P_T = 150$ W $I_C = 20$ A  File No. 525	<b>2N4348</b> $V_{CEV(sus)} = 140$ V $h_{FE} = 15-60$ @ 5 A $f_T = 0.7$ MHz typ. $P_T = 120$ W $I_C = 10$ A  CT File No. 526	<b>2N5575</b> $V_{CEV(sus)} = 50$ V $h_{FE} = 10-40$ @ 60 A $f_T = 0.4$ MHz min.  File No. 359
<b>40348</b> $V_{CEV(sus)} = 90$ V $h_{FE} = 30-125$ @ 300 mA $f_T = 1.5$ MHz typ.  88 E		<b>2N5785</b> $V_{CEV(sus)} = 65$ V $h_{FE} = 20-100$ @ 1.2 A $f_T = 1$ MHz min.  CT 413 E	<b>2N6260</b> $V_{CEV(sus)} = 50$ V $h_{FE} = 20-100$ @ 1.5 A $f_T = 0.8$ MHz min. $P_T = 29$ W  527	<b>2N5297</b> <b>2N5298</b> $V_{CEV(sus)} = 70$ V $h_{FE} = 20-80$ @ 1.5 A $f_T = 0.8$ MHz min.  CT 322	<b>2N3441</b> $V_{CEV(sus)} = 150$ V $h_{FE} = 25-100$ @ 0.5 A $f_T = 1.2$ MHz typ. $P_T = 25$ W  CT 529	<b>2N6478</b> $V_{CEV(sus)} = 150$ V $h_{FE} = 25-100$ @ 1 A $f_T = 0.8$ MHz min.  680	<b>2N5495</b> <b>2N5494</b> $V_{CEV(sus)} = 50$ V $h_{FE} = 20-80$ @ 3 A $f_T = 0.8$ MHz min.  CT 353	<b>2N6253</b> $V_{CEV(sus)} = 55$ V $h_{FE} = 20-70$ @ 3 A $f_T = 0.8$ MHz min. $P_T = 115$ W  524	<b>2N6098</b> <b>2N6099</b> $V_{CEV(sus)} = 65$ V $h_{FE} = 20-80$ @ 4 A $f_T = 0.8$ MHz min. $I_C = 10$ A max.  485	<b>2N3442</b> $V_{CEV(sus)} = 160$ V $h_{FE} = 20-70$ @ 3 A $f_T = 0.8$ MHz typ. $P_T = 117$ W  528	<b>2N3771</b> $V_{CEV(sus)} = 45$ V $h_{FE} = 15-60$ @ 15 A $f_T = 0.8$ MHz min. $P_T = 150$ W $I_C = 30$ A  525	<b>2N3773</b> $V_{CEV(sus)} = 160$ V $h_{FE} = 15-60$ @ 8 A $f_T = 0.7$ MHz typ. $P_T = 150$ W $I_C = 16$ A  526	<b>2N5578</b> $V_{CEV(sus)} = 70$ V $h_{FE} = 10-40$ @ 40 A $f_T = 0.4$ MHz min.  359
		<b>2N5784</b> $V_{CEV(sus)} = 80$ V $h_{FE} = 20-100$ @ 1 A $f_T = 1$ MHz min.  CT 413 E	<b>BDY 71</b> <b>2N3054</b> $V_{CEV(sus)} = 60$ V $h_{FE} = 80-200$ @ 0.5 A $f_T = 0.8$ MHz min. $P_T = 25$ W  CT 527	<b>2N5293</b> <b>2N5294</b> $V_{CEV(sus)} = 75$ V $h_{FE} = 30-120$ @ 0.5 A $f_T = 0.8$ MHz min.  CT 322	<b>2N6264</b> $V_{CEV(sus)} = 170$ V $h_{FE} = 20-60$ @ 1 A $f_T = 1.2$ MHz typ. $P_T = 50$ W  529		<b>2N5493</b> <b>2N5492</b> $V_{CEV(sus)} = 65$ V $h_{FE} = 20-100$ @ 2.5 A $f_T = 0.8$ MHz min.  CT 353	<b>2N3055</b> $V_{CEV(sus)} = 70$ V $h_{FE} = 20-70$ @ 4 A $f_T = 0.8$ MHz min. $P_T = 115$ W  CT 524	<b>2N6100</b> <b>2N6101</b> $V_{CEV(sus)} = 75$ V $h_{FE} = 20-80$ @ 5 A $f_T = 0.8$ MHz min. $I_C = 10$ A max.  485	<b>2N6262</b> $V_{CEV(sus)} = 170$ V $h_{FE} = 20-70$ @ 3 A $f_T = 0.8$ MHz min. $P_T = 150$ W  528	<b>2N3772</b> $V_{CEV(sus)} = 70$ V $h_{FE} = 15-60$ @ 10 A $f_T = 0.8$ MHz min. $P_T = 150$ W  CT 525	<b>2N6259</b> $V_{CEV(sus)} = 160$ V $h_{FE} = 15-60$ @ 8 A $f_T = 0.6$ MHz min. $P_T = 250$ W $I_C = 16$ A  526	
			<b>2N6261</b> $V_{CEV(sus)} = 85$ V $h_{FE} = 25-100$ @ 1.5 A $f_T = 0.8$ MHz min. $P_T = 50$ W  527				<b>2N5497</b> <b>2N5496</b> $V_{CEV(sus)} = 80$ V $h_{FE} = 20-100$ @ 3.5 A $f_T = 0.8$ MHz min.  CT 353	<b>2N6254</b> $V_{CEV(sus)} = 85$ V $h_{FE} = 20-70$ @ 5 A $f_T = 0.8$ MHz min. $P_T = 150$ W  524	<b>BD278</b> $V_{CEV(sus)} = 55$ V $h_{FE} = 15-75$ @ 4 A $f_T = 0.8$ MHz min. $I_C = 10$ A max.  668		<b>BDY29</b> $V_{CEV(sus)} = 85$ V $h_{FE} = 15-60$ @ 15 A $P_T = 220$ W  CT 525	<b>BDY37</b> $V_{CEV(sus)} = 150$ V $h_{FE} = 15-60$ @ 8 A $P_T = 150$ W  CT 526	
									<b>BD278A</b> $V_{CEV(sus)} = 55$ V $h_{FE} = 30$ min. @ 2 A  668				

<sup>A</sup>Pellet size—values shown are edge dimensions in thousandths-of-an-inch (mils)

<sup>a</sup>Available with:  
a. flange for easy heat sinking  $R\theta_{JC} = 15^\circ$  C/W  
b. free-air radiator  $R\theta_{JA} = 40-50^\circ$  C/W

<sup>\*\*</sup>Available with free-air radiator  $R\theta_{JA} = 30^\circ$  C/W

File No. (e.g. File No. 88E), where shown, relates to the data bulletin.

CT—Complementary Type available, see matrix on Complementary-Pair Power Types.

## COMPLEMENTARY-PAIR POWER TYPES

### Hometaxial-Base/Epitaxial-Base

$I_c$ 1.5 to 2 A		$I_c$ 2.5 A		$I_c$ 3 to 3.5 A		$I_c$ 4 to 6 A		$I_c$ 12 to 17 A	
N-P-N	P-N-P	N-P-N	P-N-P	N-P-N	P-N-P	N-P-N	P-N-P	N-P-N	P-N-P
<b>2N5293</b> <b>2N5294</b> $V_{CE(SUS)} = 75$ V $I_c = 1.5$ A VERSAWATT (TO-220) File No. 322	<b>2N6106</b> <b>2N6107</b> $V_{CE(SUS)} = -80$ V $I_c = -1.5$ A VERSAWATT (TO-220) File No. 676	<b>2N5786</b> $V_{CE(SUS)} = 45$ V $I_c = 2.5$ A (TO-39) File No. 413E	<b>2N5783</b> $V_{CE(SUS)} = -45$ V $I_c = -2.5$ A (TO-39) 413E	<b>2N3054</b> $V_{CE(SUS)} = 60$ V $I_c = 3$ A (TO-66) File No. 527	<b>2N5955</b> $V_{CE(SUS)} = -65$ V $I_c = -3$ A (TO-66) 675	<b>2N5495</b> <b>2N5494</b> $V_{CE(SUS)} = 50$ V $I_c = 4$ A VERSAWATT (TO-220) File No. 353	<b>2N6110</b> <b>2N6111</b> $V_{CE(SUS)} = -40$ V $I_c = -4$ A VERSAWATT (TO-220) File No. 676	<b>2N3055</b> $V_{CE(SUS)} = 70$ V $I_c = 12$ A (TO-3) File No. 524	<b>2N6247</b> $V_{CE(SUS)} = -90$ V $I_c = -12$ A (TO-3) File No. 677
<b>2N5295</b> <b>2N5296</b> $V_{CE(SUS)} = 50$ V $I_c = 2$ A VERSAWATT (TO-220) 322	<b>2N6106</b> <b>2N6107</b> $V_{CE(SUS)} = -80$ V $I_c = -2$ A VERSAWATT (TO-220) 676	<b>2N5297</b> <b>2N5298</b> $V_{CE(SUS)} = 70$ V $I_c = 2.5$ A VERSAWATT (TO-220) 322	<b>2N6106</b> <b>2N6107</b> $V_{CE(SUS)} = -80$ V $I_c = -2.5$ A VERSAWATT (TO-220) 676	<b>2N5491</b> <b>2N5490</b> $V_{CE(SUS)} = 50$ V $I_c = 3$ A VERSAWATT (TO-220) 353	<b>2N6106</b> <b>2N6107</b> $V_{CE(SUS)} = -80$ V $I_c = -3$ A VERSAWATT (TO-220) 676	<b>2N4347</b> $V_{CE(SUS)} = 140$ V $I_c = 4$ A (TO-3) 528	<b>2N5954</b> $V_{CE(SUS)} = -85$ V $I_c = -4$ A (TO-66) 675	<b>2N4348</b> $V_{CE(SUS)} = 140$ V $I_c = 14$ A (TO-3) 526	<b>2N6248</b> $V_{CE(SUS)} = -110$ V $I_c = -14$ A (TO-3) 677
<b>2N3441</b> $V_{CE(SUS)} = 150$ V $I_c = 2$ A (TO-66) 529	<b>(2N6468)†</b> $V_{CE(SUS)} = -125$ V $I_c = -2$ A (TO-66)	<b>2N5785</b> $V_{CE(SUS)} = 65$ V $I_c = 2.5$ A (TO-39) 413 E	<b>2N5782</b> $V_{CE(SUS)} = -65$ V $I_c = -2.5$ A (TO-39) 413 E	<b>40250</b> $V_{CE(SUS)} = 90$ V $I_c = 3.5$ A (TO-66) 112	<b>2N5956</b> $V_{CE(SUS)} = -45$ V $I_c = -3.5$ A (TO-66) 435	<b>2N6371</b> $V_{CE(SUS)} = 50$ V $I_c = 6$ A (TO-3) 607	<b>2N5956</b> $V_{CE(SUS)} = -45$ V $I_c = -6$ A (TO-66) 675	<b>2N3772</b> $V_{CE(SUS)} = 70$ V $I_c = 17$ A (TO-3) 525	<b>2N6247</b> $V_{CE(SUS)} = -90$ V $I_c = -17$ A (TO-3) 677
		<b>2N5784</b> $V_{CE(SUS)} = 80$ V $I_c = 2.5$ A (TO-39) 413 E	<b>2N5781</b> $V_{CE(SUS)} = -80$ V $I_c = -2.5$ A (TO-39) 413 E	<b>2N5493</b> <b>2N5492</b> $V_{CE(SUS)} = 65$ V $I_c = 3.5$ A VERSAWATT (TO-220) 353	<b>2N6108</b> <b>2N6109</b> $V_{CE(SUS)} = -60$ V $I_c = -3.5$ A VERSAWATT (TO-220) 676	<b>2N3055</b> $V_{CE(SUS)} = 70$ V $I_c = 6$ A (TO-3) 524	<b>2N5955</b> $V_{CE(SUS)} = -65$ V $I_c = -6$ A (TO-66) 675	* Or higher voltage type 2N6248.	

### High-Voltage

$I_c = 0.2$ A		$I_c = 2$ A	
N-P-N	P-N-P	N-P-N	P-N-P
<b>2N3440</b> $V_{CE(SUS)} = 250$ V $I_c = 0.2$ A (TO-39) File No. 64E	<b>2N5415</b> $V_{CE(SUS)} = -200$ V $I_c = -0.2$ A (TO-39) File No. 336E	<b>2N3584</b> $V_{CE(SUS)} = 350$ V $I_c = 2$ A (TO-66) File No. 138	<b>2N6212</b> $V_{CE(SUS)} = -325$ V $I_c = -2$ A (TO-66) File No. 507
<b>2N6175</b> $V_{CE(SUS)} = 300$ V $I_c = 0.2$ A (Plastic TO-5) 508 E	<b>BFT19A</b> $V_{CE(SUS)} = -300$ V $I_c = -0.2$ A (TO-39) 683	<b>2N3585</b> $V_{CE(SUS)} = 400$ V $I_c = 2$ A (TO-66) 138	<b>2N6213</b> $V_{CE(SUS)} = -375$ V $I_c = -2$ A (TO-66) 507
<b>2N3439</b> $V_{CE(SUS)} = 350$ V $I_c = 0.2$ A (TO-39) 64 E	<b>2N5416</b> $V_{CE(SUS)} = -350$ V $I_c = -0.2$ A (TO-39) 336	<b>BUX67</b> $V_{CE(SUS)} = 175$ V $I_c = 2$ A (TO-66) 871	<b>BUX66</b> $V_{CE(SUS)} = -175$ V $I_c = -2$ A (TO-66) 870
<b>2N6176</b> $V_{CE(SUS)} = 350$ V $I_c = 0.2$ A (Plastic TO-5) 508 E	<b>BFT19B</b> $V_{CE(SUS)} = -400$ V $I_c = -0.2$ A (TO-39) 683	<b>BUX67A</b> $V_{CE(SUS)} = 275$ V $I_c = 2$ A (TO-66) 871	<b>BUX66A</b> $V_{CE(SUS)} = -275$ V $I_c = -2$ A (TO-66) 870
		<b>BUX67B</b> $V_{CE(SUS)} = 350$ V $I_c = 2$ A (TO-66) 871	<b>BUX66B</b> $V_{CE(SUS)} = -350$ V $I_c = -2$ A (TO-66) 870
		<b>BUX67C</b> $V_{CE(SUS)} = 400$ V $I_c = 2$ A (TO-66) 871	<b>BUX66C</b> $V_{CE(SUS)} = -400$ V $I_c = -2$ A (TO-66) 870

Note: The collector current ( $I_c$ ) value shown is for  $h_{FE}$  of 10 min.

### High-Speed

$I_c = 1$ A		$I_c = 1$ A	
N-P-N	P-N-P	N-P-N	P-N-P
<b>2N3053</b> $V_{CE(SUS)} = 50$ V $I_c = 1$ A (TO-39) File No. 432 E	<b>2N4037</b> $V_{CE(SUS)} = -60$ V $I_c = -1$ A (TO-39) File No. 216E	<b>2N6179</b> $V_{CE(SUS)} = 65$ V $I_c = 1$ A (Plastic TO-5) File No. 562	<b>2N6181</b> $V_{CE(SUS)} = -65$ V $I_c = -1$ A (Plastic TO-5) 562
<b>2N2102</b> $V_{CE(SUS)} = 80$ V $I_c = 1$ A (TO-39) 106 E	<b>2N4036</b> $V_{CE(SUS)} = -85$ V $I_c = -1$ A (TO-39) 216 E	<b>2N6178</b> $V_{CE(SUS)} = 90$ V $I_c = 1$ A (Plastic TO-5) 562	<b>2N6180</b> $V_{CE(SUS)} = -90$ V $I_c = -1$ A (Plastic TO-5) 562
<b>2N5321</b> $V_{CE(SUS)} = 65$ V $I_c = 1$ A (TO-39) 325 E	<b>2N5323</b> $V_{CE(SUS)} = -65$ V $I_c = -1$ A (TO-39) 325 E		
<b>2N5320</b> $V_{CE(SUS)} = 90$ V $I_c = 1$ A (TO-39) 325 E	<b>2N5322</b> $V_{CE(SUS)} = -90$ V $I_c = -1$ A (TO-39) 325 E		

File No. (e.g. File No. 322), where shown, relates to data bulletin.  
See Epitaxial-Base and Monolithic Darlington Matrices for additional Complementary-Pair Power Types.

## APPLICATION INFORMATION . . .

### Power Types [N-P-N & P-N-P] as Pass Transistors for Series Regulator Service

Pass Transistor Conditions	Peak Output Voltage (V)	Regulator Output Current ( $I_o$ )—A				
		Up to 0.2	0.2 to 1	1 to 4	4 to 20	> 20
With preregulator $I_c = I_o$ $V_{CE} = \text{constant or } \approx 4[V_{CE}(\text{sat})]$ $P_{MAX} \approx 4(I_o)[V_{CE}(\text{sat})]$	10 to 60	[2N2102] [2N4036] 2N1482	[2N5321] [2N5323] [2N6179] [2N6181]	[2N3054] [2N5955] [2N5497] [2N6106]	[2N3055] [2N6247] [2N3771]	2N3772  2N5575
	60 to 150	40349	2N3441	2N3442 2N4347 2N5293	2N3772  2N4348	2N5578
	150 to 400	[2N3440 BFT 19, A, B, C BFT 28, A, B, C 2N5415]	[2N3585] [2N6212]	2N5240  BUX 16, A, B, C	2N5805  2N6251	-

Bracket signifies a complementary pair (n-p-n, 2N2102; p-n-p, 2N4036) suitable for symmetrical power-supply circuits.

### Power Types for Electrostatic Deflection and Video Output

Bandwidth > 1MHz	
Output Voltage < 60V (Peak-to-Peak)	Output Voltage 60 to 400V (Peak-to-Peak)
2N2102 2N3878 2N4036 2N5320 2N5322*	2N3439 BF 257 BF 258 BF 259 2N3585 2N5416 BFT 19, A, B, C. BFT 28, A, B, C. 2N6177 2N6213 BUX 66, A, B, C BUX 67, A, B, C

\* P-N-P Type

## MILITARY SPECIFICATION TYPES

### Power Transistors

RCA (JAN) Type No.	MIL-Spec. 19500/	RCA (JAN) Type No.	MIL-Spec. 19500/	RCA (JAN) Type No.	MIL-Spec. 19500/	RCA (JAN) Type No.	MIL-Spec. 19500/	RCA (JAN) Type No.	MIL-Spec. 19500/
2N1479	207	TX2N1485	180	2N3055	407	TX2N3584	384	2N5039	439
2N1480	207	2N1486	180	TX2N3055	407	2N3585	384	TX2N5039	439
2N1481	207	TX2N1486	180	2N3439	368	TX2N3585	384	2N6211	461
2N1482	207	2N1487	208	TX2N3439	368	2N3771	413	TX2N6211	461
2N1483	180	2N1488	208	2N3440	368	TX2N3771	413	2N6212	461
TX2N1483	180	2N1489	208	TX2N3440	368	2N3772	413	TX2N6212	461
2N1484	180	2N1490	208	2N3441	369	TX2N3772	413	2N6213	461
TX2N1484	180	2N2015	248	2N3442	370	2N5038	439	TX2N6213	461
2N1485	180	2N2016	248	2N3584	384	TX2N5038	439		

DESCRIPTION

**2N3771 FAMILY [n-p-n] (silicon)**  
 $f_T = 0.8 \text{ MHz min}; P_T \text{ up to } 250 \text{ W max}$

$V_{CE0(sus)}$ V	$V_{CER(sus)}$ V	$V_{CEV(sus)}$ V	$h_{FE}$		$I_{CEV-mA}$			$V_{CE(sat)-V}$			$V_{BE-V}$		
			$I_C$ A	$V_{CE}$ V	Temp. -°C	$V_{CE}$ V	$I_C$ A	$I_B$ A	$I_C$ A				
40	45	50	15-75	8	4	4	20	45	1.5	8	0.8	2.2	8
40	45	50	15-60	15	4	2	10 <sup>▲</sup>	50	2	15	1.5	2.7	15
60	70	80	15-60	10	4	5	10 <sup>▲</sup>	100	1.4	10	1	2.2	10
75	—	90	15-60	15	2	1 <sup>●</sup>	10 <sup>▲</sup>	100	1.2	15	1.5	3.5	30

▲ At  $V_{CE} = 30 \text{ V}$

—	90	—	35-100	4	4	0.5 <sup>●</sup>	2 <sup>●</sup>	80	0.8	4	0.4	1.2	4
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● JAN & JAN TX types available. ●  $I_{CER}$

**2N TYPES**

- 2N6257 High-Current, General Purpose
- 2N3771<sup>■</sup> High-Current, General Purpose
- 2N3772<sup>■</sup> High-Current, General Purpose
- BDY29 High-Current, General Purpose

**AUDIO TYPES**

- 40411 Output, 70-W Class AB Amplifier

**2N TYPES**

- 2N4348 High-Current High Voltage, General Purpose
- 2N3773 High-Current High Voltage, General Purpose
- 2N6259 High-Current High Voltage, General Purpose
- BDY37 High-Current High Voltage, General Purpose

**2N3773 FAMILY [n-p-n] (silicon)**  
 $f_T = 0.7 \text{ MHz typ}; P_T \text{ up to } 250 \text{ W max}$

120	140	140	15-60	5	4	2	10	120	1	5	0.5	2	5
140	150	160	15-60	8	4	2	10	140	1.4	8	0.8	2.2	8
150	160	170	15-60	8	2	0.2	4	150	1	8	0.8	2	8
140	—	160	15-60	8	4	2 <sup>●</sup>	10 <sup>●</sup>	140	1.4	8	0.8	2.2	8

**2N3879 FAMILY [n-p-n] (silicon)**  
 $f_T = 60 \text{ MHz min}; P_T = 35 \text{ W max}$

50	65	—	50-200	0.5	5	4	4	100	2	4	0.5	2.5	4
75	90	—	20-80	4	5	4	4	100	1.2	4	0.4	1.8	4
—	75	—	10-100	4	1.2	10	10	100	1.2	4	0.4	1.9	4
90	110	—	15-60	3	2	5	10	110	1.5	3	0.3	2.5	3

**2N TYPES**

- 2N3878 Audio, Ultrasonic Amplifiers and RF
- 2N3879 High-Current High-Speed Switch
- 2N5202 High-Current High-Speed Switch
- 2N6500 High-Current High-Speed Switch

**AUDIO TYPES**

- 40364 Output, 20-W Class AB Amplifier

**OTHER TYPES**

- 40375 2N3878 with Heat Radiator\*

—	70	—	35-175	0.5	5	0.5 <sup>●</sup>	2 <sup>●</sup>	50	2	2.5	0.25	1.8	2.5
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50	65	—	50-200	0.5	5	4	4	100	2	4	0.5	2.5	4
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\* Radiator improves  $R_{\theta JA}$  from 70°C/W to 30°C/W

**2N4036 FAMILY [p-n-p] (silicon)**  
 $f_T = 60 \text{ MHz min}; P_T \text{ up to } 7 \text{ W max}$

●  $I_{CER}$

**2N TYPES**

- 2N4036 PNP Complement of 2N2102
- 2N4037 PNP Complement of 2N3053
- 2N4314 Low Cost, High Voltage

-65	-85	-85	40-140	-0.15	-10	-0.02 <sup>●</sup>	—	-60	-0.65	-0.15	-0.015	-1.1	-0.15
-40	-60	-60	50-250	-0.15	-10	-0.25 <sup>●</sup>	—	-60	-1.4	-0.15	-0.015	-1.5	-0.15
-65	-85	-85	50-250	-0.15	-10	-0.25 <sup>●</sup>	—	-60	-1.4	-0.15	-0.015	-1.5	-0.15

