

NPN SILICON POWER TRANSISTORS (Cont'd)

| Device Type No. NPN | Maximum Ratings | | | | | Electrical Characteristics @ 25°C | | | | | Case | |
|---------------------------|--|-----------------------|--------------|--------------|--------------|-----------------------------------|------|-------|------------------|----------|------|------------------|
| | Power Dissipation @ 25°C (Case) Watts | IC (Cont.) Amps | VCB Volts | VCE Volts | VEB Volts | hFE & IC & VCE | | | VCE(Sat) @ IC/IB | | | ft MHz Min |
| | | | | | | Min/Max | Amps | Volts | Volts | A/A | | |
| 2N2880 | 30 | 5 | 100 | 80 | 8 | 40/120 | 1 | 2 | 2 | 5/0.5 | 50 | TO-59 |
| 2N2852 | 5 | 5 | 100 | 80 | 5 | 20/60 | 1 | 1 | 0.4 | 1/0.1 | 30 | R-61 |
| 2N2851 | 5 | 5 | 100 | 80 | 5 | 40/120 | 1 | 1 | 0.4 | 1/0.1 | 40 | R-61 |
| 2N2850 | 5 | 5 | 100 | 80 | 5 | 40/120 | 1 | 1 | 0.25 | 1/0.1 | 40 | R-61 |
| 2N2658 | 5 | 5 | 100 | 80 | 8 | 40/120 | 1 | 2 | 0.5 | 1/0.1 | 20 | TO-39 |
| 2N2849 | 5 | 5 | 100 | 80 | 5 | 100/130 | 1 | 1 | 0.4 | 1/0.1 | 60 | R-61 |
| 2N4309 | 5 | 5 | 120 | 80 | 6 | 40/120 | 1 | 2 | 1 | 3/0.3 | 70 | TO-39 |
| 2N4305 | 5 | 5 | 120 | 80 | 6 | 50/150 | 1 | 2 | 1 | 3/0.3 | 70 | TO-39 |
| 2N5336 | 6 | 5 | 80 | 80 | 6 | 30/120 | 2 | 2 | 1.2 | 5/0.5 | 30 | TO-39 |
| 2N5337 | 6 | 5 | 80 | 80 | 6 | 60/240 | 2 | 2 | 1.2 | 5/0.5 | 30 | TO-39 |
| 2N1617 | 60 | 5 | 80 | 80 | 8 | 15/75 | 2 | 12 | 2 | 2/0.25 | 3 | TO-61 |
| 2N4897 | 4 | 5 | 150 | 80 | 6 | 40/120 | 2 | 2 | 1 | 5/0.5 | 40 | TO-39 |
| 2N4150 | 5 | 5 | 100 | 80 | 5 | 40/120 | 5 | 5 | 0.6 | 5/0.5 | 30 | TO-39 |
| 2N5152 | 10 | 5 | 100 | 80 | 6 | 30/90 | 2.5 | 5 | 0.75 | 2.5/0.25 | 60 | TO-39 |
| 2N5154 | 10 | 5 | 100 | 80 | 6 | 70/200 | 2.5 | 5 | 0.75 | 2.5/0.25 | 70 | TO-39 |
| 2N5487 | 15 | 5 | 120 | 80 | 8 | 25/ | 5 | 5 | 1.8 | 5/0.5 | 40 | R-61 |
| 2N3746 | 30 | 5 | 100 | 80 | 8 | 20/60 | 1 | 5 | 0.25 | 1/0.1 | 30 | TO-111 |
| 2N3749 | 30 | 5 | 100 | 80 | 8 | 20/60 | 1 | 5 | 0.25 | 1/0.1 | 40 | TO-111 |
| 2N3752 | 30 | 5 | 100 | 80 | 8 | 100/300 | 1 | 5 | 0.25 | 1/0.1 | 50 | TO-111 |
| 2N3996 | 30 | 5 | 100 | 80 | 8 | 40/120 | 1 | 2 | 2 | 5/0.5 | 40 | TO-111 |
| 2N3998 | 30 | 5 | 100 | 80 | 8 | 40/120 | 1 | 2 | 2 | 5/0.5 | 40 | TO-59 |
| 2N3997 | 30 | 5 | 100 | 80 | 8 | 80/240 | 1 | 2 | 2 | 5/0.5 | 40 | TO-111 |
| 2N3999 | 30 | 5 | 100 | 80 | 8 | 80/240 | 1 | 2 | 2 | 5/0.5 | 40 | TO-59 |
| 2N3850 | 30 | 5 | 100 | 80 | 5 | 50/150 | 1 | 1 | 0.5 | 2/0.2 | 20 | TO-59 |
| 2N4115 | 30 | 5 | 120 | 80 | 8 | 40/120 | 2 | 5 | 1.5 | 5/0.5 | 70 | TO-59 |
| 2N4116 | 30 | 5 | 120 | 80 | 8 | 100/300 | 2 | 5 | 1.5 | 5/0.5 | 80 | TO-59 |
| 2N5002 | 50 | 5 | 100 | 80 | 6 | 30/90 | 2.5 | 5 | 0.75 | 2.5/0.25 | 60 | TO-59 |
| 2N5004 | 50 | 5 | 100 | 80 | 6 | 70/200 | 2.5 | 5 | 0.75 | 1.5/0.25 | 70 | TO-59 |
| 2N1618 | 60 | 5 | 100 | 100 | 8 | 15/75 | 2 | 12 | 2 | 2/0.25 | 3 | TO-61 |
| 2N5338 | 6 | 5 | 100 | 100 | 6 | 30/120 | 2 | 2 | 1.2 | 5/0.5 | 30 | TO-39 |
| 2N5339 | 6 | 5 | 100 | 100 | 6 | 60/240 | 2 | 2 | 1.2 | 5/0.5 | 30 | TO-39 |
| 2N2633 | 20 | 5 | 120 | 80 | 8 | 20/140 | 1 | 2 | 2 | 5/0.5 | 20 | TO-61 |
| 2N5284 | 50 | 5 | 120 | 100 | 6 | 30/90 | 2.5 | 5 | 0.75 | 2.5/0.25 | 60 | TO-59 |
| 2N5285 | 50 | 5 | 120 | 100 | 6 | 70/200 | 2.5 | 5 | 1.5 | 5/0.5 | 70 | TO-59 |
| 2N5488 | 15 | 5 | 150 | 100 | 8 | 40/120 | 1 | 2 | 1 | 5/0.5 | 40 | R-61 |
| 2N2634 | 20 | 5 | 150 | 100 | 8 | 40/120 | 1 | 2 | 2 | 5/0.5 | 20 | TO-61 |
| 2N5427 | 40 | 7 | 80 | 80 | 6 | 30/120 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-66 |
| 2N5428 | 40 | 7 | 80 | 80 | 6 | 60/240 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-66 |
| 2N1724 | 50 | 7 | 120 | 80 | 10 | 20/90 | 2 | 15 | 1 | 2/0.2 | 10 | TO-61 |
| 2N1725 | 50 | 7 | 120 | 80 | 10 | 50/150 | 2 | 15 | 1 | 2/0.2 | 10 | TO-61 |
| 2N5346 | 60 | 7 | 80 | 80 | 6 | 30/120 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-59 |
| 2N5347 | 60 | 7 | 80 | 80 | 6 | 60/240 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-59 |
| 2N5477 | 60 | 7 | 80 | 80 | 6 | 30/120 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-59 |
| 2N5478 | 60 | 7 | 80 | 80 | 6 | 60/240 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-59 |
| 2N5429 | 40 | 7 | 100 | 100 | 6 | 30/120 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-66 |
| 2N5430 | 40 | 7 | 100 | 100 | 6 | 60/240 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-66 |
| 2N5348 | 60 | 7 | 100 | 100 | 6 | 30/120 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-59 |
| 2N5349 | 60 | 7 | 100 | 100 | 6 | 60/240 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-59 |
| 2N5479 | 60 | 7 | 100 | 100 | 6 | 30/120 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-59 |
| 2N5480 | 60 | 7 | 100 | 100 | 6 | 60/240 | 2 | 2 | 1.2 | 7/0.7 | 30 | TO-59 |
| 2N1724A | 50 | 7 | 180 | 120 | 10 | 30/90 | 2 | 15 | 0.6 | 2/0.2 | 10 | TO-61 |
| 2N3445 | 100 | 7.5 | 80 | 60 | 6 | 20/60 | 3 | 5 | 1.5 | 3/0.3 | 16 | TO-3 |
| 2N3487 | 115 | 7.5 | 80 | 60 | 10 | 20/60 | 3 | 5 | 1.5 | 5/0.5 | 10 | TO-61 |
| 2N3447 | 100 | 7.5 | 80 | 60 | 6 | 40/120 | 5 | 5 | 1.5 | 5/0.5 | 16 | TO-3 |
| 2N3490 | 115 | 7.5 | 80 | 60 | 10 | 40/120 | 5 | 5 | 1.5 | 5/0.5 | 10 | TO-61 |
| 2N3446 | 100 | 7.5 | 100 | 80 | 8 | 20/60 | 3 | 5 | 1.5 | 3/0.3 | 16 | TO-3 |
| 2N3488 | 115 | 7.5 | 100 | 80 | 10 | 20/60 | 3 | 5 | 1.5 | 5/0.5 | 10 | TO-61 |
| 2N3448 | 100 | 7.5 | 100 | 80 | 8 | 40/120 | 5 | 5 | 1.5 | 5/0.5 | 16 | TO-3 |
| 2N3491 | 115 | 7.5 | 100 | 80 | 10 | 40/120 | 5 | 5 | 1.5 | 5/0.5 | 10 | TO-61 |
| 2N3489 | 115 | 7.5 | 120 | 100 | 10 | 15/45 | 3 | 5 | 1.5 | 5/0.5 | 10 | TO-61 |
| 2N3492 | 115 | 7.5 | 120 | 100 | 10 | 30/90 | 3 | 5 | 1.5 | 5/0.5 | 10 | TO-61 |
| 2N5387 | 100 | 7.5 | 200 | 200 | 10 | 25/100 | 2 | 5 | 2 | 5/1 | 15 | TO-61 |
| 2N5388 | 100 | 7.5 | 250 | 250 | 10 | 25/100 | 2 | 5 | 2 | 5/1 | 15 | TO-61 |
| 2N5389 | 100 | 7.5 | 300 | 300 | 10 | 25/100 | 2 | 5 | 2 | 5/1 | 15 | TO-61 |
| 2N5304 | 100 | 10 | 50 | 40 | 6 | 30/120 | 2 | 2 | 2 | 10/1 | 100 | TO-61 |