

NPN HIGH CURRENT GENERAL PURPOSE MEDIUM SPEED AMPLIFIERS

| Type NPN | Maximum Ratings | | | | Electrical Characteristics @ 25°C | | | | | | Case |
|----------|-----------------|-----------|-----------|-----------|-----------------------------------|-----|------------------|--------|------------|------------|-------|
| | Pd Ambient mW | VCB Volts | VCE Volts | VEB Volts | HFE @ IC | | VCE(Sat) @ IC/IB | | ft MHz Min | Cob pF Max | |
| | | | | | Min/Max | mA | Volts | mA/mA | | | |
| 2N4237 | 800 | 50 | 40 | 6 | 30/150 | 250 | 0.6 | 1A/100 | 2 | 100 | TO-39 |
| 2N5321 | 1000 | 75 | 50 | 5 | 40/250 | 500 | 0.8 | 500/50 | 50 | 30 | TO-39 |
| 2N1714 | 800 | 90 | 60 | 6 | 20/60 | 200 | 2.0 | 200/20 | 16 | 50 | TO-39 |
| 2N1716 | 800 | 90 | 60 | 6 | 40/120 | 200 | 2.0 | 200/20 | 16 | 50 | TO-39 |
| 2N1718 | 2000 | 90 | 60 | 6 | 20/60 | 200 | 2.0 | 200/20 | 16 | 50 | T-20 |
| 2N1720 | 2000 | 90 | 60 | 6 | 40/120 | 200 | 2.0 | 200/20 | 16 | 50 | T-20 |
| 2N3418 | 800 | 85 | 60 | 8 | 20/60 | 1A | 1.2 | 1A/100 | 40 | 130 | TO-39 |
| 2N3420 | 800 | 85 | 60 | 8 | 40/120 | 1A | 1.2 | 1A/100 | 40 | 130 | TO-39 |
| 2N4238 | 800 | 80 | 60 | 6 | 30/150 | 250 | 0.6 | 1A/100 | 2 | 100 | TO-39 |
| 2N5320 | 1000 | 100 | 75 | 7 | 30/130 | 500 | 0.5 | 500/50 | 50 | 30 | TO-39 |
| 2N2987 | 1000 | 95 | 80 | 7 | 25/75 | 200 | 0.8 | 200/20 | 30 | 50 | TO-39 |
| 2N2989 | 1000 | 95 | 80 | 7 | 60/120 | 200 | 0.8 | 200/20 | 30 | 50 | TO-39 |
| 2N2991 | 2000 | 95 | 80 | 7 | 25/75 | 200 | 0.8 | 200/20 | 30 | 50 | T-20 |
| 2N2993 | 2000 | 95 | 80 | 7 | 60/120 | 200 | 0.8 | 200/20 | 30 | 50 | T-20 |
| 2N3419 | 800 | 125 | 80 | 8 | 20/60 | 1A | 1.2 | 1A/100 | 40 | 130 | TO-39 |
| 2N3421 | 800 | 125 | 80 | 8 | 40/120 | 1A | 1.2 | 1A/100 | 40 | 130 | TO-39 |
| 2N4239 | 800 | 100 | 80 | 6 | 30/150 | 250 | 0.6 | 1A/100 | 2 | 100 | TO-39 |
| 2N4000 | 1000 | 100 | 80 | 6 | 20/60 | 200 | 2.0 | 500/50 | 40 | 60 | TO-39 |
| 2N4300 | 1000 | 100 | 80 | 8 | 30/120 | 500 | 0.3 | 1A/100 | 30 | 40 | TO-39 |
| 2N1715 | 800 | 150 | 100 | 8 | 30/120 | 1A | 0.3 | 200/20 | 16 | 50 | TO-39 |
| 2N1717 | 800 | 150 | 100 | 6 | 40/120 | 200 | 2.0 | 200/20 | 16 | 50 | TO-39 |
| 2N1719 | 2000 | 150 | 100 | 6 | 20/60 | 200 | 2.0 | 200/20 | 16 | 50 | T-20 |
| 2N1721 | 2000 | 150 | 100 | 6 | 40/120 | 200 | 2.0 | 200/20 | 16 | 50 | T-20 |
| 2N2988 | 1000 | 155 | 100 | 7 | 25/75 | 200 | 0.8 | 200/20 | 30 | 50 | TO-39 |
| 2N2990 | 1000 | 155 | 100 | 7 | 60/120 | 200 | 0.8 | 200/20 | 30 | 50 | TO-39 |
| 2N2992 | 2000 | 155 | 100 | 7 | 25/75 | 200 | 0.8 | 200/20 | 30 | 50 | T-20 |
| 2N2994 | 2000 | 155 | 100 | 7 | 60/120 | 200 | 0.8 | 200/20 | 30 | 50 | T-20 |
| 2N5681 | 1000 | 100 | 100 | 4 | 40/150 | 250 | 0.6 | 250/25 | 30 | 50 | TO-39 |
| 2N4001 | 1000 | 120 | 100 | 8 | 40/120 | 500 | 0.3 | 50/50 | 40 | 60 | TO-39 |
| 2N5682 | 1000 | 120 | 120 | 4 | 40/150 | 250 | 0.6 | 250/25 | 30 | 50 | TO-39 |

PNP HIGH CURRENT GENERAL PURPOSE MEDIUM SPEED AMPLIFIERS

| | | | | | | | | | | | |
|--------|------|-----|-----|---|---------|-----|------|--------|-----|-----|-------|
| 2N4234 | 1000 | 40 | 40 | 7 | 30/150 | 250 | 0.6 | 1A/125 | 3 | 100 | TO-39 |
| 2N5323 | 1000 | 75 | 50 | 5 | 40/250 | 500 | 0.8 | 500/50 | 50 | 40 | TO-39 |
| 2N4026 | 500 | 60 | 60 | 5 | 40/120 | 100 | 0.15 | 150/15 | 100 | 20 | TO-18 |
| 2N4028 | 500 | 60 | 60 | 5 | 100/300 | 100 | 0.15 | 150/15 | 150 | 20 | TO-18 |
| 2N4030 | 800 | 60 | 60 | 5 | 40/120 | 100 | 0.15 | 150/15 | 100 | 20 | TO-39 |
| 2N4032 | 800 | 60 | 60 | 5 | 100/300 | 100 | 0.15 | 150/15 | 150 | 20 | TO-39 |
| 2N4235 | 1000 | 60 | 60 | 7 | 30/150 | 250 | 0.6 | 1A/125 | 3 | 100 | TO-39 |
| 2N5322 | 1000 | 100 | 75 | 7 | 30/130 | 500 | 0.5 | 500/50 | 50 | 40 | TO-39 |
| 2N4027 | 500 | 80 | 80 | 5 | 40/120 | 100 | 0.15 | 150/15 | 100 | 20 | TO-18 |
| 2N4029 | 500 | 80 | 80 | 5 | 100/300 | 100 | 0.15 | 150/15 | 150 | 20 | TO-18 |
| 2N4031 | 800 | 80 | 80 | 5 | 40/120 | 100 | 0.15 | 150/15 | 100 | 20 | TO-39 |
| 2N4236 | 1000 | 80 | 80 | 7 | 30/150 | 250 | 0.6 | 1A/125 | 3 | 100 | TO-39 |
| 2N4033 | 800 | 80 | 80 | 5 | 100/300 | 100 | 0.15 | 150/15 | 150 | 20 | TO-39 |
| 2N4404 | 1250 | 80 | 80 | 5 | 40/120 | 150 | 0.2 | 150/15 | 200 | 10 | TO-39 |
| 2N4405 | 1250 | 80 | 80 | 5 | 100/300 | 150 | 0.2 | 150/15 | 200 | 10 | TO-39 |
| 2N4406 | 1250 | 80 | 80 | 5 | 25/100 | 150 | 0.2 | 150/15 | 150 | 15 | TO-39 |
| 2N4407 | 1250 | 80 | 80 | 5 | 75/225 | 150 | 0.2 | 150/15 | 150 | 15 | TO-39 |
| 2N5333 | 1000 | 100 | 80 | 6 | 30/120 | 1A | 1 | 2A/.4A | 30 | 30 | TO-39 |
| 2N5679 | 1000 | 100 | 100 | 4 | 40/150 | 250 | 0.5 | 250/25 | 30 | 50 | TO-39 |
| 2N5680 | 1000 | 120 | 120 | 4 | 40/150 | 250 | 0.6 | 250/25 | 30 | 50 | TO-39 |

HIGH SPEED LOGIC SWITCHES

| Type NPN | Maximum Ratings | | | | Electrical Characteristics @ 25°C | | | | | | | | Case |
|----------|-----------------|-----------|-----------|-----------|-----------------------------------|-----|------------------|-----------|------------|------------|------------|-------------|-------|
| | Pd Ambient mW | VCB Volts | VCE Volts | VEB Volts | HFE @ IC | | VCE(Sat) @ IC/IB | | ft MHz Min | Cob pF Max | tON ns Max | tOFF ns Max | |
| | | | | | Min/Max | mA | Volts | mA/mA | | | | | |
| 2N709 | 300 | 15 | 6 | 4 | 30/125 | 10 | 0.25 | 10/1 | 600 | 3 | 12 | 12 | TO-18 |
| 2N709A | 300 | 15 | 6 | 4 | 30/90 | 10 | 0.3 | 3/.15 | 800 | 3 | 15 | 15 | TO-18 |
| 2N2784 | 300 | 15 | 6 | 6 | 40/120 | 10 | 0.26 | 3/.15 | 700 | 3 | 9 | 9 | TO-52 |
| 2N3010 | 300 | 15 | 6 | 4 | 25/125 | 10 | 0.25 | 10/1 | 600 | 3 | 12 | 12 | TO-18 |
| 2N3058 | 400 | 6 | 6 | 6 | 40/160 | 0.1 | 0.05 | .001/.001 | - | 10 | - | - | TO-46 |



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