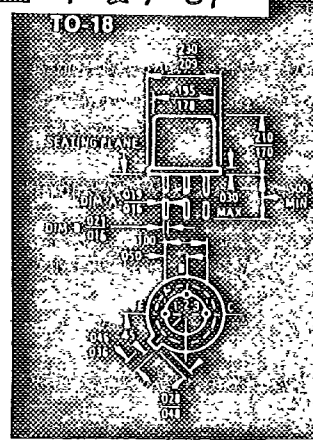
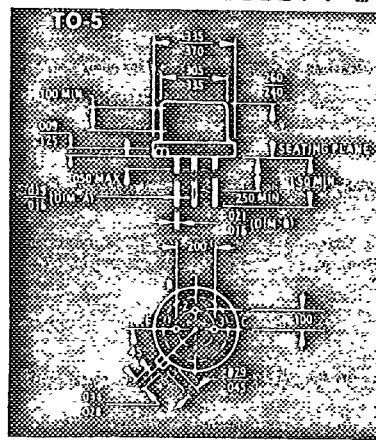




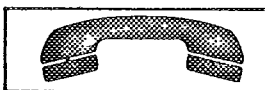
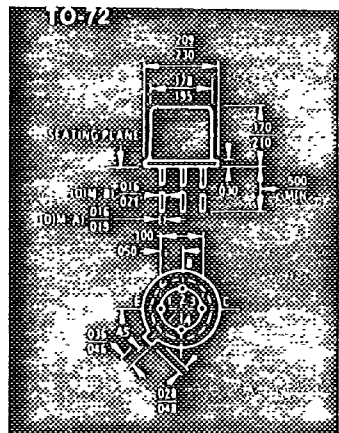
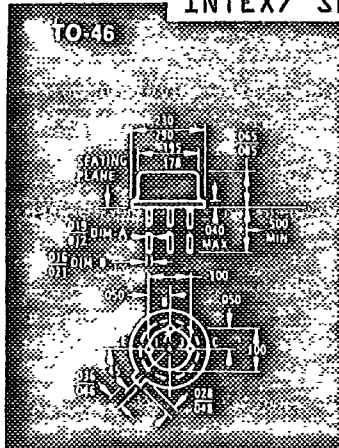
Semitronics Corp.

SEMICONDUCTORS

metal can transistors
silicon small signal transistors



| Device | Type | Package | Maximum Ratings | | | | Electrical Characteristics @ 25 °C | | | | | | | | | | | |
|--------|------|---------|---------------------------------|--------------------------|--------------------------|--------------------------|------------------------------------|--|---------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|------------------------|-----|-----------|-----------|
| | | | P _D Ambient mW | V _{CB} Volts | V _{CE} Volts | V _{EB} Volts | h _{FE} Min/Max | V _{CE} (Sat) @ I _C /I _B | | C _{cb} pF Max | C _{ob} pF Max | f _t MHz Min | t _{ON} ns Max | t _{OFF} ns Max | Power Gain @ f | | NF @ f | |
| | | | | | | | | Volts | mA/mA | | | | | | dB f _{lin} | MHz | dB Max | MHz |
| 2N497 | NPN | TO-5 | 800 | 60 | 60 | 8 | 12/36 | 5.0 | 200/40 | - | 20† | 40† | - | - | - | - | - | - |
| 2N498 | NPN | TO-5 | 800 | 100 | 100 | 8 | 12/36 | 5.0 | 200/40 | - | 20† | 40† | - | - | - | - | - | - |
| 2N656 | NPN | TO-5 | 800 | 60 | 60 | 8 | 30/90 | 5.0 | 200/40 | - | 20† | 40† | - | - | - | - | - | - |
| 2N657 | NPN | TO-5 | 800 | 100 | 100 | 8 | 30/90 | 5.0 | 200/40 | - | 20† | 40† | - | - | - | - | - | - |
| 2N696 | NPN | TO-5 | 600 | 60 | 40* | 5 | 20/60 | 1.5 | 150/15 | - | 35 | 40 | - | - | - | - | - | - |
| 2N697 | NPN | TO-5 | 600 | 60 | 40* | 5 | 40/120 | 1.5 | 150/150 | - | 35 | 50 | - | - | - | - | - | - |
| 2N698 | NPN | TO-5 | 600 | 120 | 60 | 7 | 20/60 | 5.0 | 150/15 | - | 15 | 40 | - | - | - | - | - | - |
| 2N699 | NPN | TO-5 | 800 | 120 | 80* | 5 | 40/120 | 5.0 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N699A | NPN | TO-5 | 800 | 120 | 80* | 5 | 40/120 | 5.0 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N699B | NPN | TO-5 | 800 | 120 | 80* | 7 | 40/120 | 5.0 | 150/15 | - | 15 | 60 | - | - | - | - | - | - |
| 2N706 | NPN | TO-18 | 300 | 25 | 20* | 3 | 20/- | 0.2 | 10/1 | - | 6 | 200 | 40† | 75† | - | - | - | - |
| 2N706A | NPN | TO-18 | 300 | 25 | 15 | 5 | 20/60 | 0.2 | 10/1 | - | 6 | 200 | 40 | 75 | - | - | - | - |
| 2N706B | NPN | TO-18 | 300 | 25 | 15 | 5 | 20/60 | 0.2 | 10/1 | - | 5 | 200 | 40 | 75 | - | - | - | - |
| 2N706C | NPN | TO-18 | 360 | 40 | 15 | 5 | 20/60 | 0.3 | 30/3 | - | 5 | 200 | 40 | 75 | - | - | - | - |
| 2N708 | NPN | TO-18 | 360 | 40 | 15 | 5 | 30/120 | 0.3 | 30/3 | - | 6 | 300 | 35 | 65 | - | - | - | - |
| 2N710 | NPN | TO-18 | 400 | 60 | 40* | 5 | 40/120 | 1.5 | 150/15 | - | 35 | 50 | - | - | - | - | - | - |
| 2N710A | NPN | TO-18 | 500 | 75 | 50* | 7 | 40/120 | 1.5 | 150/15 | - | 25 | 60 | - | - | - | - | - | - |
| 2N719 | NPN | TO-18 | 400 | 120 | 80* | 5 | 20/60 | 5.0 | 150/15 | - | 20 | 40 | - | - | - | - | - | - |
| 2N720 | NPN | TO-18 | 400 | 120 | 80* | 5 | 40/120 | 5.0 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N720A | NPN | TO-18 | 500 | 120 | 80* | 7 | 40/120 | 5.0 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |
| 2N721 | PNP | TO-18 | 400 | 50 | 35 | 5 | 20/45 | 1.5 | 150/15 | - | 45 | 50 | - | - | - | - | - | - |
| 2N722 | PNP | TO-18 | 400 | 50 | 35 | 5 | 30/90 | 1.5 | 150/15 | - | 45 | 50 | - | - | - | - | - | - |
| 2N730 | NPN | TO-18 | 500 | 60 | 40* | 5 | 20/60 | 1.5 | 150/15 | - | 35 | 40 | - | - | - | - | - | - |
| 2N731 | NPN | TO-18 | 500 | 60 | 40* | 5 | 40/120 | 1.5 | 150/15 | - | 35 | 50 | - | - | - | - | - | - |
| 2N743 | NPN | TO-18 | 300 | 20 | 12 | 5 | 20/60 | 0.6 | 100/10 | - | 6 | 400 | 16 | 24 | - | - | - | - |
| 2N743A | NPN | TO-18 | 360 | 40 | 15 | 5 | 20/60 | 0.6 | 100/10 | - | 6 | 500 | 12 | 15 | - | - | - | - |
| 2N744 | NPN | TO-18 | 300 | 20 | 12 | 5 | 40/120 | 0.6 | 100/10 | - | 4 | 400 | 16 | 24 | - | - | - | - |
| 2N744A | NPN | TO-18 | 360 | 40 | 15 | 5 | 40/120 | 0.6 | 100/10 | - | 5 | 500 | - | - | - | - | - | - |
| 2N760 | NPN | TO-18 | 500 | 45 | 45 | 8 | 76/333 | 1.0 | 10/1.0 | - | 8 | 50 | - | - | - | - | - | - |
| 2N760A | NPN | TO-18 | 500 | 60 | 60 | 8 | 76/333 | 1.0 | 10/1.0 | - | 8 | 50 | - | - | - | - | - | - |
| 2N783 | NPN | TO-18 | 300 | 40 | 20* | 5 | 20/80 | 0.25 | 10/1.0 | - | 3.† | 200 | 18 | 30 | - | - | - | - |
| 2N784 | NPN | TO-18 | 360 | 30 | 15* | 5 | 20/- | 0.16 | 10/1.0 | - | 3.† | 200 | 15 | 40 | - | - | - | - |
| 2N784A | NPN | TO-18 | 350 | 40 | 20* | 5 | 25/150 | 0.19 | 10/1.0 | - | 3.† | 300 | 20 | 40 | - | - | - | - |
| 2N834 | NPN | TO-18 | 300 | 40 | 30* | 5 | 25/- | 0.4 | 50/5 | - | 4 | 350 | 35 | 75 | - | - | - | - |
| 2N834A | NPN | TO-18 | 360 | 40 | 30* | 5 | 25/- | 0.4 | 50/5 | - | 4 | 500 | 35 | 75 | - | - | - | - |
| 2N835 | NPN | TO-18 | 300 | 25 | 20 | 5 | 20/- | 0.3 | 10/1.0 | - | 4 | 300 | 20 | 35 | - | - | - | - |
| 2N869 | PNP | TO-18 | 1200 | 25 | 18 | 5 | 20/- | - | - | - | - | 100 | - | 18 | - | - | - | - |
| 2N869A | PNP | TO-18 | 360 | 25 | 18 | 5 | 40/120 | 0.5 | 100/10 | - | 6 | 400 | 50 | 80 | - | - | - | - |
| 2N870 | NPN | TO-18 | 500 | 100 | 60 | 7 | 40/120 | 5.0 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |
| 2N871 | NPN | TO-18 | 500 | 100 | 60 | 7 | 100/300 | 5.0 | 150/15 | - | 15 | 60 | - | - | - | - | - | - |
| 2N910 | NPN | TO-18 | 500 | 100 | 60 | 7 | 75/- | 1.2 | 50/5 | - | 15 | 60 | - | - | - | - | - | - |
| 2N911 | NPN | TO-18 | 500 | 100 | 60 | 7 | 35/- | 1.2 | 5/5 | - | 15 | 50 | - | - | - | - | - | - |
| 2N912 | NPN | TO-18 | 500 | 100 | 60 | 7 | 15/- | 1.2 | 50/5 | - | 15 | 40 | - | - | - | - | - | - |
| 2N916 | NPN | TO-18 | 360 | 70 | 50 | 5 | 50/200 | - | - | - | 3.5 | 250 | - | - | 10† | 100 | 2 | 1.0 |
| 2N916 | NPN | TO-18 | 360 | 45 | 25 | 5 | 50/200 | - | - | - | 6.0 | 300 | - | - | 10† | 100 | 2 | 1.0 |
| 2N917 | NPN | TO-72 | 200 | 30 | 15 | 3 | 20/200 | - | - | - | 1.7 | 500 | - | - | 9 | 200 | 6 | 60.0 |
| 2N917A | NPN | TO-72 | 200 | 30 | 15 | 3 | 20/200 | - | - | - | 1.7 | 600 | - | - | 15 | 200 | 6 | 60.0 |
| 2N918 | NPN | TO-72 | 200 | 30 | 15 | 3 | 20/- | - | - | - | 1.7 | 600 | - | - | 15 | 200 | 6 | 60.0 |
| 2N929 | NPN | TO-18 | 300 | 45 | 45 | 5 | 40/120 | 1.0 | 10/0.5 | - | 8 | 30 | - | - | - | - | 4 | 15.7 kHz |
| 2N929A | NPN | TO-18 | 500 | 60 | 45 | 6 | 40/120 | 0.5 | 10/0.5 | - | 6 | 45 | - | - | - | - | 4 | 15.7 kHz |
| 2N930 | NPN | TO-18 | 300 | 45 | 45 | 5 | 100/300 | 1.0 | 10/0.5 | - | 8 | 30 | - | - | - | - | 3 | 15.7 kHz |
| 2N930A | NPN | TO-18 | 500 | 60 | 45 | 6 | 100/300 | 0.5 | 10/0.5 | - | 6 | 45 | - | - | - | - | 4 | (1.0 kHz) |
| 2N930B | NPN | TO-18 | 500 | 60 | 45 | 6 | 100/300 | 0.5 | 10/0.5 | - | 6 | 45 | - | - | - | - | 3 | 15.7 kHz |
| 2N956 | NPN | TO-18 | 500 | 75 | 50* | 7 | 100/300 | 1.5 | 150/15 | - | 25 | 70 | - | - | - | - | - | - |
| 2N957 | NPN | TO-18 | 250 | 40 | 20 | 5 | 45/- | - | - | - | 6.0 | 200 | - | - | 10† | 100 | 7.5 | - |
| 2N1131 | PNP | TO-5 | 600 | 50 | 35 | 5 | 20/45 | 1.5 | 150/15 | - | 45 | 50 | - | - | - | - | - | - |
| 2N1132 | PNP | TO-5 | 600 | 60 | 35 | 5 | 30/90 | 1.5 | 150/15 | - | 45 | 50 | - | - | - | - | - | - |
| 2N1420 | NPN | TO-5 | 600 | 60 | 30* | 5 | 100/300 | 1.5 | 150/15 | - | 35 | 50 | - | - | - | - | - | - |
| 2N1507 | NPN | TO-5 | 600 | 60 | 30* | 5 | 100/300 | 1.5 | 150/15 | - | 35 | 50 | - | - | - | - | - | - |



semitron hot line

TOLL FREE NUMBER 800-777-3960

metal can transistors cont'd
silicon small signal transistors

| Device | Type | Package | Maximum Ratings | | | | Electrical Characteristics @ 25 °C | | | | | | | | | | | |
|---------|------|---------|---------------------------------|--------------------------|--------------------------|--------------------------|------------------------------------|--|--------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|----------------|-----|-----------|-----|
| | | | P _D Ambient mW | V _{CB} Volts | V _{CE} Volts | V _{EB} Volts | h _{FE} Min/Max | V _{CE} (Sat) @ I _C /I _B | | C _{cb} pF Max | C _{ob} pF Max | f _t MHz Min | t _{ON} ns Max | t _{OFF} ns Max | Power Gain @ f | | NF @ f | |
| | | | | | | | | Volts | mA/mA | | | | | | dB Min | MHz | dB Max | MHz |
| 2N1613 | NPN | TO-5 | 800 | 75 | 50* | 7 | 40/120 | 1.5 | 150/15 | - | 25 | 60 | - | - | - | - | - | - |
| 2N1613A | NPN | TO-5 | 1000 | 75 | 50* | 7 | 40/120 | 1 | 150/15 | - | 25 | 60 | - | - | - | - | - | - |
| 2N1613B | NPN | TO-5 | 1000 | 120 | 50 | 7 | 40/120 | 0.2 | 150/15 | - | 10 | 60 | - | - | - | - | - | - |
| 2N1711 | NPN | TO-5 | 800 | 75 | 50* | 7 | 100/300 | 1.5 | 150/15 | - | 25 | 70 | - | - | - | - | - | - |
| 2N1711A | NPN | TO-5 | 1000 | 75 | 50* | 7 | 100/300 | 1 | 150/15 | - | 25 | 70 | - | - | - | - | - | - |
| 2N1711B | NPN | TO-5 | 1000 | 120 | 50 | 7 | 100/300 | 0.2 | 150/15 | - | 10 | 70 | - | - | - | - | - | - |
| 2N1809 | NPN | TO-5 | 800 | 100 | 60 | 7 | 40/120 | 5 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |
| 2N1890 | NPN | TO-5 | 800 | 100 | 60 | 7 | 100/300 | 5 | 150/15 | - | 15 | 60 | - | - | - | - | - | - |
| 2N1893 | NPN | TO-5 | 800 | 120 | 80 | 7 | 40/120 | 5 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |
| 2N1893A | NPN | TO-5 | 800 | 140 | 80 | 7 | -40/120 | 2 | 150/15 | - | 8 | 100 | - | - | - | - | - | - |
| 2N1990 | NPN | TO-5 | 600 | 100 | | 3 | 20/- | 0.5 | 2/0.2 | - | 20 | 40 | - | - | - | - | - | - |
| 2N2102 | NPN | TO-5 | 1000 | 120 | 65 | 7 | 40/120 | 0.5 | 150/15 | - | 15 | 60 | - | - | - | - | - | - |
| 2N2102A | NPN | TO-5 | 1000 | 120 | 65 | 7 | 40/120 | 0.3 | 150/15 | - | 15 | 60 | - | - | - | - | - | - |
| 2N2192 | NPN | TO-5 | 800 | 60 | 40 | 5 | 100/300 | 0.35 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2192A | NPN | TO-5 | 800 | 60 | 40 | 5 | 100/300 | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2192B | NPN | TO-5 | 800 | 60 | 40 | 5 | 100/300 | 0.18 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2193 | NPN | TO-5 | 800 | 80 | 50 | 8 | 40/120 | 0.35 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2193A | NPN | TO-5 | 800 | 80 | 50 | 8 | 40/120 | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2193B | NPN | TO-5 | 800 | 80 | 50 | 8 | 40/120 | 0.18 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2194 | NPN | TO-5 | 800 | 60 | 40 | 5 | 20/60 | 0.35 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2194A | NPN | TO-5 | 800 | 60 | 40 | 5 | 20/60 | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2194B | NPN | TO-5 | 800 | 60 | 40 | 5 | 20/60 | 0.18 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2195 | NPN | TO-5 | 800 | 45 | 25 | 5 | 20/- | 0.35 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2195A | NPN | TO-5 | 800 | 45 | 25 | 5 | 20/- | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2195B | NPN | TO-5 | 800 | 45 | 25 | 5 | 20/- | 0.18 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2205 | NPN | TO-18 | 300 | 25 | 12 | 3 | 20/- | 0.35 | 50/5 | - | 6 | 200 | 40 | 75 | - | - | - | - |
| 2N2217 | NPN | TO-5 | 800 | 60 | 30 | 5 | 20/60 | 0.4 | 150/15 | - | 8 | 250 | 35† | 285† | - | - | - | - |
| 2N2218 | NPN | TO-5 | 800 | 60 | 30 | 5 | 40/120 | 1.6 | 500/50 | - | 8 | 250 | 35† | 285† | - | - | - | - |
| 2N2218A | NPN | TO-5 | 800 | 75 | 40 | 6 | 40/120 | 1.6 | 500/50 | - | 8 | 250 | 35 | 285 | - | - | - | - |
| 2N2219 | NPN | TO-5 | 800 | 60 | 30 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 250 | 35† | 285† | - | - | - | - |
| 2N2219A | NPN | TO-5 | 800 | 75 | 40 | 6 | 100/300 | 1.6 | 500/50 | - | 8 | 300 | 35 | 285 | - | - | - | - |
| 2N2220 | NPN | TO-18 | 500 | 60 | 30 | 5 | 20/60 | 0.4 | 150/15 | - | 8 | 250 | 35† | 285† | - | - | - | - |
| 2N2221 | NPN | TO-18 | 500 | 60 | 30 | 5 | 40/120 | 1.6 | 500/50 | - | 8 | 250 | 35† | 285† | - | - | - | - |
| 2N2221A | NPN | TO-18 | 500 | 75 | 40 | 6 | 40/120 | 1.6 | 500/50 | - | 8 | 250 | 35 | 285 | - | - | - | - |
| 2N2222 | NPN | TO-18 | 500 | 60 | 30 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 250 | 35† | 285† | - | - | - | - |
| 2N2222A | NPN | TO-18 | 500 | 75 | 40 | 6 | 100/300 | 1.6 | 500/50 | - | 8 | 300 | 35 | 285 | - | - | - | - |
| 2N2236 | NPN | TO-5 | 600 | 40 | 20 | 6 | 15/60 | 0.25 | 100/20 | - | 35 | 50† | 30 | 600 | - | - | - | - |
| 2N2237 | NPN | TO-5 | 600 | 40 | 20 | 6 | 40/125 | 0.25 | 100/20 | - | 35 | 50 | 25 | 600 | - | - | - | - |
| 2N2243 | NPN | TO-5 | 800 | 120 | 80 | 7 | 40/120 | 0.35 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |
| 2N2243A | NPN | TO-5 | 800 | 120 | 80 | 7 | 40/120 | 0.25 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |
| 2N2270 | NPN | TO-5 | 1000 | 60 | 45 | 7 | 50/200 | 0.9 | 150/15 | - | 15 | 100 | - | - | - | - | - | - |
| 2N2297 | NPN | TO-5 | 800 | 80 | 35 | 7 | 40/120 | 0.2 | 150/15 | - | 12 | 60 | - | - | - | - | - | - |
| 2N2303 | PNP | TO-5 | 600 | 50 | 35 | 5 | 75/200 | 1.5 | 150/15 | - | 45 | 50 | - | - | - | - | - | - |
| 2N2309 | NPN | TO-5 | 600 | 30 | 30 | 5 | 25/125 | - | - | - | 25 | 40† | - | - | - | - | - | - |
| 2N2310 | NPN | TO-46 | 350 | 60 | 60 | 8 | 12/36 | 5 | 200/40 | - | 20† | 40† | - | - | - | - | - | - |
| 2N2311 | NPN | TO-46 | 350 | 100 | 100 | 8 | 12/36 | 5 | 200/40 | - | 20† | 40† | - | - | - | - | - | - |
| 2N2312 | NPN | TO-46 | 350 | 60 | 60 | 8 | 30/90 | 5 | 200/40 | - | 20† | 40† | - | - | - | - | - | - |
| 2N2313 | NPN | TO-46 | 350 | 100 | 100 | 8 | 30/90 | 5 | 200/40 | - | 20† | 40† | - | - | - | - | - | - |
| 2N2314 | NPN | TO-46 | 350 | 60 | 40* | 5 | 20/60 | 5 | 150/15 | - | 35 | 40 | - | - | - | - | - | - |
| 2N2315 | NPN | TO-46 | 350 | 60 | 40* | 5 | 40/120 | 1.5 | 150/15 | - | 35 | 50 | - | - | - | - | - | - |
| 2N2316 | NPN | TO-46 | 350 | 120 | 80* | 5 | 40/120 | 5.0 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2317 | NPN | TO-46 | 350 | 75 | 50* | 7 | 40/120 | 1.5 | 150/15 | - | 25 | 60 | - | - | - | - | - | - |
| 2N2350 | NPN | TO-46 | 400 | 60 | 40 | 5 | 100/300 | 0.35 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2350A | NPN | TO-46 | 400 | 60 | 40 | 5 | 100/300 | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2351 | NPN | TO-46 | 400 | 80 | 50 | 8 | 40/120 | 0.35 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |



SEMICONDUCTORS

discrete devices

Semitronics Corp.

metal can transistors cont'd

silicon small signal transistors

| Device | Type | Package | Maximum Ratings | | | | Electrical Characteristics @ 25 °C | | | | | | | | | | | |
|---------|------|---------|---------------------------------|--------------------------|--------------------------|--------------------------|------------------------------------|--|--------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|----------------|-----|-----------|----------|
| | | | P _D Ambient mW | V _{CB} Volts | V _{CE} Volts | V _{EB} Volts | h _{FE} Min/Max | V _{CE} (Sat) @ I _C /I _B | | C _{cb} pF Max | C _{ob} pF Max | f _t MHz Min | t _{ON} ns Max | t _{OFF} ns Max | Power Gain @ f | | NF @ f | |
| | | | | | | | | Volts | mA/mA | | | | | | dB Min | MHz | dB Max | MHz |
| 2N2351A | NPN | TO -46 | 400 | 80 | 50 | 8 | 40/120 | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2352 | NPN | TO -46 | 400 | 60 | 40 | 5 | 20/60 | 0.35 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2352A | NPN | TO -46 | 400 | 60 | 40 | 5 | 20/60 | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2353 | NPN | TO -46 | 350 | 45 | 25 | 5 | 20/- | 0.35 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2353A | NPN | TO -46 | 350 | 45 | 25 | 5 | 20/- | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2364 | NPN | TO -46 | 400 | 120 | 80 | 7 | 40/120 | 0.35 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |
| 2N2364A | NPN | TO -46 | 400 | 120 | 80 | 7 | 40/120 | 0.25 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |
| 2N2368 | NPN | TO -18 | 360 | 40 | 15 | 4.5 | 20/60 | 0.6 | 100/10 | - | 4 | 400 | 12 | 15 | - | - | - | - |
| 2N2369 | NPN | TO -18 | 360 | 40 | 15 | 4.5 | 40/120 | 0.6 | 100/10 | - | 4 | 500 | 12 | 18 | - | - | - | - |
| 2N2369A | NPN | TO -18 | 360 | 40 | 15 | 4.5 | 40/120 | 0.5 | 100/10 | - | 4 | 500 | 12 | 18 | - | - | - | - |
| 2N2380 | NPN | TO -5 | 600 | 80 | 40 | 5 | 20/120 | 1.3 | 150/15 | - | 14 | 100 | 125 | 195 | - | - | - | - |
| 2N2380A | NPN | TO -5 | 600 | 80 | 40 | 5 | 20/120 | 1.3 | 150/15 | - | 14 | 100 | 125 | 195 | - | - | - | - |
| 2N2405 | NPN | TO -5 | 1000 | 120 | 90 | 7 | 60/200 | 0.5 | 150/15 | - | 15 | 401 | - | - | - | - | - | - |
| 2N2479 | NPN | TO -5 | 600 | 80 | 40 | 5 | 30/120 | 0.85 | 150/15 | - | 14 | 150 | 1001 | 185 | - | - | - | - |
| 2N2481 | NPN | TO -18 | 360 | 40 | 15 | 5 | 40/120 | 0.4 | 100/10 | - | 5 | 300 | 40 | 55 | - | - | - | - |
| 2N2483 | NPN | TO -18 | 360 | 60 | 60 | 6 | 40/120 | 0.35 | 1/0.1 | - | 6 | 60 | - | - | - | - | 4 | 15.7 kHz |
| 2N2484 | NPN | TO -18 | 360 | 60 | 60 | 6 | 100/300 | 0.35 | 1/0.1 | - | 6 | 60 | - | - | - | - | 3 | 15.7 kHz |
| 2N2484A | NPN | TO -18 | 360 | 60 | 60 | 6 | 100/500 | 0.35 | 1/0.1 | - | 6 | 60 | - | - | - | - | 2 | 10.0 kHz |
| 2N2509 | NPN | TO -18 | 360 | 125 | 80 | 7 | 25/- | 1.0 | 5/0.5 | - | 6 | 45 | - | - | - | - | 7 | 1.0 kHz |
| 2N2510 | NPN | TO -18 | 360 | 100 | 65 | 7 | 150/500 | 1.0 | 5/0.5 | - | 6 | 45 | - | - | - | - | 4 | 1.0 kHz |
| 2N2511 | NPN | TO -18 | 360 | 80 | 50 | 7 | 240/750 | 1.0 | 5/0.5 | - | 6 | 45 | - | - | - | - | 4 | 1.0 kHz |
| 2N2586 | NPN | TO -18 | 300 | 60 | 45 | 6 | 120/360 | 0.5 | 5/0.5 | - | 7 | 45 | - | - | - | - | 2 | 1.0 kHz |
| 2N2604 | PNP | TO -46 | 400 | 60 | 45 | 6 | 40/120 | 0.5 | 10/0.5 | - | 6 | 30 | - | - | - | - | 4 | 15.7 kHz |
| 2N2605 | PNP | TO -46 | 400 | 60 | 45 | 6 | 100/300 | 0.5 | 10/0.5 | - | 6 | 30 | - | - | - | - | 4 | 15.7 kHz |
| 2N2645 | NPN | TO -5 | 1000 | 120 | 90 | 7 | 60/200 | 0.5 | 150/15 | - | 15 | 40 | - | - | - | - | - | - |
| 2N2695 | PNP | TO -46 | 360 | 25 | 25 | 4 | 30/130 | 1.0 | 300/30 | - | 20 | 100 | 75 | 170 | - | - | - | - |
| 2N2696 | PNP | TO -18 | 360 | 25 | 25 | 4 | 30/130 | 1.0 | 300/30 | - | 20 | 100 | 75 | 170 | - | - | - | - |
| 2N2708 | NPN | TO -72 | 200 | 35 | 20 | 3 | 30/200 | - | - | - | 1 | 700 | - | - | 15 | 200 | 7.5 | 200 |
| 2N2800 | PNP | TO -5 | 800 | 50 | 35 | 5 | 30/90 | 1.2 | 500/50 | - | 25 | 120 | 70 | 270 | - | - | - | - |
| 2N2801 | PNP | TO -5 | 800 | 50 | 35 | 5 | 75/225 | 1.2 | 500/50 | - | 25 | 120 | 70 | 270 | - | - | - | - |
| 2N2837 | PNP | TO -18 | 500 | 50 | 35 | 5 | 30/90 | 1.2 | 500/50 | - | 25 | 120 | 70 | 270 | - | - | - | - |
| 2N2838 | PNP | TO -18 | 500 | 50 | 35 | 5 | 75/225 | 1.2 | 500/50 | - | 25 | 120 | 70 | 270 | - | - | - | - |
| 2N2861 | PNP | TO -18 | 300 | 25 | 20 | 5 | 30/120 | 0.2 | 10/1 | - | 6 | 200 | - | - | - | - | 3 | 10 |
| 2N2862 | PNP | TO -18 | 300 | 25 | 20 | 5 | 12/120 | 0.2 | 10/1 | - | 6 | 150 | - | - | - | - | 4 | 10 |
| 2N2865 | NPN | TO -72 | 200 | 25 | 13 | 3 | 20/200 | - | - | - | 2.5 | 600 | - | - | 16.5 | 200 | 4.5 | 200 |
| 2N2868 | NPN | TO -5 | 800 | 60 | 40 | 7 | 40/120 | 0.25 | 150/15 | - | 20 | 50 | - | - | - | - | - | - |
| 2N2894 | PNP | TO -18 | 1200 | 12 | 12 | 4 | 40/150 | 0.15 | 10/1 | - | - | - | 60 | 90 | - | - | - | - |
| 2N2895 | NPN | TO -18 | 500 | 120 | 65 | 7 | 40/120 | 0.5 | 500/50 | - | 15 | 120 | - | - | - | - | - | - |
| 2N2896 | NPN | TO -18 | 500 | 140 | 90 | 7 | 60/200 | 0.5 | 500/50 | - | 15 | 120 | - | - | - | - | - | - |
| 2N2897 | NPN | TO -18 | 500 | 60 | 45 | 7 | 50/200 | 0.5 | 500/50 | - | 15 | 100 | - | - | - | - | - | - |
| 2N2898 | NPN | TO -46 | 500 | 120 | 65 | 7 | 40/120 | 0.5 | 500/50 | - | 15 | 120 | - | - | - | - | - | - |
| 2N2899 | NPN | TO -46 | 500 | 140 | 90 | 7 | 60/200 | 0.5 | 500/50 | - | 15 | 120 | - | - | - | - | - | - |
| 2N2900 | NPN | TO -46 | 500 | 60 | 45 | 7 | 50/200 | 0.5 | 500/50 | - | 15 | 100 | - | - | - | - | - | - |
| 2N2904 | PNP | TO -5 | 600 | 60 | 40 | 5 | 40/120 | 1.6 | 500/50 | - | 8 | 200 | 45 | 100 | - | - | - | - |
| 2N2904A | PNP | TO -5 | 600 | 60 | 60 | 5 | 40/120 | 1.6 | 500/90 | - | 8 | 200 | 45 | 100 | - | - | - | - |
| 2N2905 | PNP | TO -5 | 600 | 60 | 40 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 45 | 100 | - | - | - | - |
| 2N2905A | PNP | TO -5 | 600 | 60 | 60 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 45 | 100 | - | - | - | - |
| 2N2906 | PNP | TO -18 | 400 | 60 | 40 | 5 | 40/120 | 1.6 | 500/50 | - | 8 | 200 | 45 | 100 | - | - | - | - |
| 2N2906A | PNP | TO -18 | 400 | 60 | 60 | 5 | 40/120 | 1.6 | 500/50 | - | 8 | 200 | 45 | 100 | - | - | - | - |
| 2N2907 | PNP | TO -18 | 400 | 60 | 40 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 45 | 100 | - | - | - | - |
| 2N2907A | PNP | TO -18 | 400 | 60 | 60 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 45 | 100 | - | - | - | - |
| 2N2958 | NPN | TO -18 | 600 | 60 | 20 | 5 | 40/120 | 0.5 | 150/15 | - | 8 | 250 | 95 | 500 | - | - | - | - |
| 2N2959 | NPN | TO -5 | 600 | 60 | 20 | 5 | 100/300 | 0.5 | 150/15 | - | 8 | 250 | 95 | 500 | - | - | - | - |
| 2N2960 | NPN | TO -5 | 600 | 60 | 30 | 5 | 100/300 | 0.5 | 150/50 | - | 8 | 250 | 95 | 500 | - | - | - | - |
| 2N2961 | NPN | TO -5 | 600 | 60 | 30 | 5 | 100/300 | 2.0 | 500/50 | - | 8 | 250 | 95 | 500 | - | - | - | - |
| 2N3010 | NPN | TO -18 | 300 | 15 | 6 | 4 | 25/125 | 0.38 | 30/3 | - | 3 | 600 | 12 | 12 | - | - | - | - |
| 2N3011 | NPN | TO -18 | 360 | 30 | 12 | 5 | 30/120 | 0.5 | 100/10 | - | 4 | 400 | 15 | 20 | - | - | - | - |
| 2N3012 | PNP | TO -18 | 360 | 12 | 12 | 4 | 20/- | 0.15 | 10/1 | - | 6 | - | 60 | 75 | - | - | - | - |
| 2N3019 | NPN | TO -5 | 800 | 140 | 80 | 7 | 100/300 | 0.2 | 150/15 | - | 12 | 100 | - | - | - | - | - | - |
| 2N3020 | NPN | TO -5 | 800 | 140 | 80 | 7 | 40/120 | 0.2 | 150/15 | - | 12 | 100 | - | - | - | - | - | - |
| 2N3036 | NPN | TO -5 | 800 | 120 | 80 | 7 | 50/150 | 0.25 | 150/15 | - | 15 | 50 | - | - | - | - | - | - |

TOLL FREE NUMBER 800-777-3960

metal can transistors cont'd

silicon small signal transistors

| Device | Type | Package | Maximum Ratings | | | | Electrical Characteristics @ 25 C | | | | | | | | | | | |
|---------|------|---------|---------------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------|--|----------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|----------------|-----|-----------|----------|
| | | | P _D Ambient mW | V _{CB} Volts | V _{CE} Volts | V _{EB} Volts | h _{FE} Min/Max | V _{CE} (Sat) @ I _C /I _B | | C _{cb} pF Max | C _{ob} pF Max | f _t MHz Min | t _{ON} ns Max | t _{OFF} ns Max | Power Gain @ f | | NF @ f | |
| | | | | | | | | Volts | mA/mA | | | | | | dB Min | MHz | dB Max | MHz |
| 2N3056 | NPN | TO-46 | 400 | 100 | 60 | 7 | 40/120 | 0.25 | 150/15 | - | 12 | 80 | - | - | - | - | - | - |
| 2N3056A | NPN | TO-46 | 400 | 140 | 80 | 7 | 40/120 | 0.2 | 150/15 | - | 12 | 80 | - | - | - | - | - | - |
| 2N3067 | NPN | TO-46 | 400 | 100 | 60 | 7 | 100/300 | 0.25 | 150/15 | - | 12 | 100 | - | - | - | - | - | - |
| 2N3057A | NPN | TO-46 | 400 | 140 | 80 | 7 | 100/300 | 0.2 | 150/15 | - | 12 | 100 | - | - | - | - | - | - |
| 2N3072 | PNP | TO-5 | 800 | 60 | 60 | 4 | 30/130 | 1.0 | 300/30 | - | 10 | 130 | 40 | 100 | - | - | - | - |
| 2N3073 | PNP | TO-18 | 360 | 60 | 60 | 4 | 30/130 | 1.0 | 300/30 | - | 10 | 130 | 40 | 100 | - | - | - | - |
| 2N3081 | PNP | TO-5 | 600 | 70 | 60 | 6 | 30/90 | 1.4 | 500/50 | - | 13 | 150 | 60 | 175 | - | - | - | - |
| 2N3107 | NPN | TO-46 | 800 | 100 | 60 | 7 | 100/300 | 0.25 | 150/15 | - | 20 | 70 | - | - | - | - | - | - |
| 2N3108 | NPN | TO-5 | 800 | 100 | 60 | 7 | 40/120 | 0.25 | 150/15 | - | 20 | 60 | - | - | - | - | - | - |
| 2N3109 | NPN | TO-5 | 800 | 80 | 40 | 7 | 100/300 | 0.25 | 150/15 | - | 25 | 70 | - | - | - | - | - | - |
| 2N3110 | NPN | TO-5 | 600 | 100 | 40 | 7 | 40/120 | 0.25 | 150/15 | - | 25 | 60 | - | - | - | - | - | - |
| 2N3115 | NPN | TO-18 | 400 | 60 | 20 | 5 | 40/120 | 0.5 | 150/15 | - | 8 | 250 | 95 | 500 | - | - | - | - |
| 2N3118 | NPN | TO-18 | 400 | 60 | 20 | 5 | 100/300 | 0.5 | 150/15 | - | 8 | 250 | 95 | 500 | - | - | - | - |
| 2N3117 | NPN | TO-18 | 360 | 60 | 60 | 6 | 250/500 | 0.35 | 1/0.1 | - | 4.5 | 60 | - | - | - | 1 | 10 | |
| 2N3120 | PNP | TO-5 | 800 | 45 | 45 | 4 | 30/130 | 1.0 | 500/50 | - | 10 | 130 | 40 | 100 | - | - | - | - |
| 2N3121 | PNP | TO-18 | 360 | 45 | 45 | 4 | 30/130 | 1.0 | 500/50 | - | 10 | 130 | 40 | 100 | - | - | - | - |
| 2N3122 | NPN | TO-5 | 800 | 50 | 30 | 5 | 25/100 | 1.5 | 300/30 | - | 25 | 60 | - | - | - | - | - | - |
| 2N3133 | PNP | TO-5 | 600 | 50 | 35 | 4 | 40/120 | 0.6 | 150/15 | - | 10 | 200 | 75 | 150 | - | - | - | - |
| 2N3134 | PNP | TO-5 | 600 | 50 | 35 | 4 | 100/300 | 0.6 | 150/15 | - | 10 | 200 | 75 | 150 | - | - | - | - |
| 2N3135 | PNP | TO-18 | 400 | 50 | 35 | 4 | 40/120 | 0.6 | 150/15 | - | 10 | 200 | 75 | 150 | - | - | - | - |
| 2N3136 | PNP | TO-18 | 400 | 50 | 35 | 4 | 100/100 | 0.6 | 150/15 | - | 10 | 200 | 75 | 150 | - | - | - | - |
| 2N3137 | NPN | TO-5 | 800 | 40 | 20 | 4 | 20/120 | 0.3 | 50/5 | - | 3.5 | - | - | - | 6 | 250 | - | - |
| 2N3209 | PNP | TO-18 | 360 | 20 | 20 | 4 | 30/120 | 0.15 | 10/1 | - | 5 | 400 | 60 | 90 | - | - | - | - |
| 2N3210 | NPN | TO-18 | 360 | 40 | 15 | 5 | 30/120 | 0.5 | 100/10 | - | 4 | 400 | 15 | 20 | - | - | - | - |
| 2N3227 | NPN | TO-18 | 360 | 40 | 20 | 6 | 30/120 | 0.75 | 200/20 | - | 6 | 300 | 40 | 40 | - | - | - | - |
| 2N3250 | PNP | TO-18 | 360 | 50 | 40 | 5 | 50/150 | 0.5 | 50/5 | - | 6 | 250 | 70 | 225 | - | - | - | - |
| 2N3250A | PNP | TO-18 | 360 | 60 | 60 | 5 | 50/150 | 0.5 | 50/5 | - | 6 | 250 | 70 | 225 | - | - | - | - |
| 2N3251 | PNP | TO-18 | 360 | 50 | 40 | 5 | 100/300 | 0.5 | 50/5 | - | 6 | 300 | 70 | 250 | - | - | - | - |
| 2N3251A | PNP | TO-18 | 360 | 60 | 60 | 5 | 100/300 | 0.5 | 50/5 | - | 6 | 300 | 70 | 250 | - | - | - | - |
| 2N3299 | NPN | TO-5 | 800 | 60 | 30 | 5 | 40/120 | 0.6 | 500/50 | - | 8 | 250 | 60 | 150 | - | - | - | - |
| 2N3300 | NPN | TO-5 | 800 | 60 | 30 | 5 | 100/300 | 0.6 | 500/50 | - | 8 | 250 | 60 | 150 | - | - | - | - |
| 2N3301 | NPN | TO-18 | 360 | 60 | 30 | 5 | 40/120 | 0.6 | 500/50 | - | 8 | 250 | 60 | 150 | - | - | - | - |
| 2N3302 | NPN | TO-18 | 360 | 60 | 30 | 5 | 100/300 | 0.6 | 500/50 | - | 8 | 250 | 60 | 150 | - | - | - | - |
| 2N3304 | PNP | TO-18 | 300 | 6 | 6 | 4 | 12/- | 0.5 | 50/5 | - | 3.5 | 500 | 60 | 60 | - | - | - | - |
| 2N3326 | NPN | TO-5 | 800 | 60 | 45 | 5 | 40/120 | 1.6 | 500/50 | - | 8 | 250 | 45 | 340 | - | - | - | - |
| 2N3388 | NPN | TO-5 | 600 | 125 | 100 | 6 | 60/- | 1.0 | 2.5/0.5 | - | 35 | 36 | - | - | - | - | - | - |
| 2N3485 | PNP | TO-46 | 360 | 60 | 40 | 5 | 40/120 | 1.6 | 500/50 | - | 8 | 200 | 50 | 110 | - | - | - | - |
| 2N3485A | PNP | TO-46 | 360 | 60 | 60 | 5 | 40/120 | 1.6 | 500/50 | - | 8 | 200 | 50 | 110 | - | - | - | - |
| 2N3486 | PNP | TO-46 | 360 | 60 | 40 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 50 | 110 | - | - | - | - |
| 2N3486A | PNP | TO-46 | 360 | 60 | 60 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 50 | 110 | - | - | - | - |
| 2N3502 | PNP | TO-5 | 700 | 45 | 45 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 40 | 100 | - | - | - | - |
| 2N3503 | PNP | TO-5 | 700 | 60 | 60 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 40 | 100 | - | - | - | - |
| 2N3504 | PNP | TO-18 | 400 | 45 | 45 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 40 | 100 | - | - | - | - |
| 2N3505 | PNP | TO-18 | 400 | 60 | 60 | 5 | 100/300 | 1.6 | 500/50 | - | 8 | 200 | 40 | 100 | - | - | - | - |
| 2N3671 | PNP | TO-5 | 600 | 60 | 50 | 5 | 75/225 | 1.6 | 500/50 | - | 9 | 200 | 50 | 110 | - | - | - | - |
| 2N3672 | PNP | TO-18 | 400 | 60 | 50 | 5 | 75/225 | 1.6 | 500/50 | - | 9 | 200 | 50 | 110 | - | - | - | - |
| 2N3673 | PNP | TO-46 | 350 | 60 | 50 | 5 | 75/225 | 1.6 | 500/50 | - | 9 | 200 | 50 | 110 | - | - | - | - |
| 2N3700 | NPN | TO-18 | 500 | 140 | 80 | 7 | 100/300 | 0.2 | 150/15 | - | 12 | 100 | - | - | - | - | - | - |
| 2N3701 | NPN | TO-18 | 500 | 140 | 80 | 7 | 40/120 | 0.2 | 150/15 | - | 12 | 80 | - | - | - | - | - | - |
| 2N3725 | NPN | TO-5 | 1000 | 80 | 50 | 6 | 60/150 | 0.95 | 1000/100 | - | 10 | 300 | 35 | 60 | - | - | - | - |
| 2N3725A | NPN | TO-5 | 1000 | 80 | 50 | 6 | 60/150 | 0.95 | 1000/100 | - | 10 | 300 | 35 | 60 | - | - | - | - |
| 2N3947 | NPN | TO-18 | 1200 | 60 | 40 | 6 | 100/300 | 0.2 | 10/1 | - | 4 | 300 | - | - | - | - | 5 | 15.7 kHz |
| 2N4080 | PNP | TO-72 | 200 | 20 | 15 | 3 | 20/- | - | - | - | 1.7 | 1000 | - | - | 15 | 200 | 6 | 200 |
| 2N4137 | NPN | TO-18 | 360 | 40 | 10 | 4.5 | 40/120 | 0.5 | 100/10 | - | 5 | 500 | 12 | 12 | - | - | - | - |
| 2N4207 | PNP | TO-18 | 350 | 6 | 6 | 4.5 | 50/120 | 0.15 | 10/1 | - | 3 | - | 15 | 15 | - | - | - | - |
| 2N4208 | PNP | TO-18 | 350 | 12 | 12 | 4.5 | 30/120 | 0.15 | 10/1 | - | 3 | - | 15 | 20 | - | - | - | - |
| 2N4209 | PNP | TO-18 | 350 | 15 | 15 | 4.5 | 50/120 | 0.18 | 10/1 | - | 3 | - | 15 | 20 | - | - | - | - |
| 2N4872 | PNP | TO-18 | 300 | 12 | 12 | 4.5 | 50/120 | 0.15 | 10/1 | - | 3 | - | 15 | 20 | - | - | - | - |
| 2N5056 | PNP | TO-18 | 360 | 15 | 15 | 4.5 | 20/- | 0.13 | 10/1 | - | 4.5 | - | 20 | 35 | - | - | - | - |
| 2N5057 | PNP | TO-18 | 360 | 15 | 15 | 4.5 | 30/- | 0.13 | 10/1 | - | 4.5 | - | 20 | 35 | - | - | - | - |