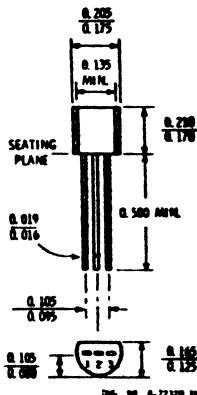


SERIES 2N TRANSISTORS,

| Catalog Number | Case Style | P _D T _A = 25°C (mW) | Polarity | V _{CB0} (V) Min. | V _{CE0} (V) Min. | V _{EB0} (V) Min. | I _{CB0} (nA) Max. | V _{CB} (V) (@) | h _{FE} | | I _C (mA) (@) | V _{CE} (V) | V _{CE(SAT)} (V) | | V _{BE(SAT)} (V) @ | | I _C (mA) | C _{ob} (pF) Max. | f _T (MHz) @ | | t _{off} (ns) Max. | NF (dB) @ | Test Cond. (note) |
|----------------|------------|---|----------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------------|-----------------|------|-------------------------------|------------------------|-----------------------------|-------|-------------------------------|------|------------------------|---------------------------------|---------------------------|------|----------------------------------|--------------|-------------------------|
| | | | | | | | | | Min. | Max. | | | Max. | Min. | Max. | Max. | | | Min. | Max. | | | |
| 2N5381 | CN-1 | 500 | NPN | 60 | 40 | 6 | 50 | 30 | 60 | — | 0.1 | 1 | 0.2 | 0.65 | 0.85 | 10 | 4 | 300 | — | 10 | 250 ⁽²²⁾ | 5 | 18 |
| | | | | | | | | | 80 | — | 1 | 1 | 0.3 | — | 0.95 | 50 | | | | | | | |
| | | | | | | | | | 100 | 300 | 10 | 1 | | | | | | | | | | | |
| | | | | | | | | | 60 | — | 50 | 1 | | | | | | | | | | | |
| | | | | | | | | | 30 | — | 100 | 1 | | | | | | | | | | | |
| 2N5382 | CN-1 | 500 | PNP | -40 | -40 | -5 | -50 | -30 | 30 | — | -0.1 | -1 | -0.25 | -0.65 | -0.85 | -10 | 4.5 | 200 | — | -10 | 260 ⁽²²⁾ | 5 | 18 |
| | | | | | | | | | 40 | — | -1 | -1 | -0.4 | — | -0.95 | -50 | | | | | | | |
| | | | | | | | | | 50 | — | -10 | -1 | | | | | | | | | | | |
| | | | | | | | | | 30 | — | -50 | -1 | | | | | | | | | | | |
| | | | | | | | | | 15 | — | -100 | -1 | | | | | | | | | | | |
| 2N5383 | CN-1 | 500 | PNP | -40 | -40 | -5 | -50 | -30 | 60 | — | -0.1 | -1 | -0.25 | -0.65 | -0.85 | -10 | 4.5 | 250 | — | -10 | 300 ⁽²²⁾ | 4 | 18 |
| | | | | | | | | | 80 | — | -1 | -1 | -0.4 | — | -0.95 | -50 | | | | | | | |
| | | | | | | | | | 100 | 300 | -10 | -1 | | | | | | | | | | | |
| | | | | | | | | | 60 | — | -50 | -1 | | | | | | | | | | | |
| | | | | | | | | | 30 | — | -100 | -1 | | | | | | | | | | | |
| 2N5400 | CT | 350 | PNP | -130 | -120 | -5 | -50 | -100 | 30 | — | -1 | -5 | -0.2 | — | -1.0 | -10 | 6 | 100 | 400 | -10 | — | 8 | 19 |
| | | | | | | | | | 40 | 180 | -10 | -5 | -0.5 | — | -1.0 | -50 | | | | | | | |
| | | | | | | | | | 40 | — | -50 | -5 | | | | | | | | | | | |
| | | | | | | | | | 40 | — | -50 | -5 | | | | | | | | | | | |
| 2N5401 | CT | 350 | PNP | -160 | -150 | -5 | -50 | -120 | 50 | — | -1 | -5 | -0.2 | — | -1.0 | -10 | 6 | 100 | 300 | -10 | — | 8 | 19 |
| | | | | | | | | | 60 | 240 | -10 | -5 | -0.5 | — | -1.0 | -50 | | | | | | | |
| | | | | | | | | | 50 | — | -50 | -5 | | | | | | | | | | | |
| 2N5418 | CZ | 360 | NPN | 25 | 25 | 4 | 100 | 25 | 25 | — | 2 | 10 | 0.25 | — | 1.1 | 50 | 6 | — | — | — | — | — | — |
| | | | | | | | | | 40 | 120 | 50 | 1 | 1.0 | — | 2.0 | 300 | | | | | | | |
| | | | | | | | | | 20 | — | 300 | 5 | | | | | | | | | | | |
| 2N5419 | CZ | 360 | NPN | 25 | 25 | 4 | 100 | 25 | 70 | — | 2 | 10 | 0.25 | — | 1.1 | 50 | 6 | — | — | — | — | — | — |
| | | | | | | | | | 100 | 300 | 50 | 1 | 1.0 | — | 2.0 | 300 | | | | | | | |
| | | | | | | | | | 40 | — | 300 | 5 | | | | | | | | | | | |
| 2N5420 | CZ | 360 | NPN | 25 | 25 | 4 | 100 | 25 | 150 | — | 2 | 10 | 0.25 | — | 1.1 | 50 | 6 | — | — | — | — | — | — |
| | | | | | | | | | 250 | 500 | 50 | 1 | 1.0 | — | 2.0 | 300 | | | | | | | |
| | | | | | | | | | 75 | — | 300 | 5 | | | | | | | | | | | |
| 2N5447 | CN-1 | 360 | PNP | -40 | -25 | -5 | -100 | -20 | 60 | 300 | -50 | -5 | -0.25 | — | — | -50 | 12 | 100 | — | -50 | — | — | — |
| 2N5448 | CN-1 | 360 | PNP | -50 | -30 | -5 | -100 | -20 | 30 | 150 | -50 | -5 | -0.25 | — | — | -50 | 12 | 100 | — | -50 | — | — | — |
| 2N5449 | CN-1 | 360 | NPN | 50 | 30 | 5 | 100 | 20 | 100 | 300 | 50 | 2 | 0.6 | 0.5 | 1.0 | 100 | 12 | 100 | — | 50 | — | — | — |
| 2N5450 | CN-1 | 360 | NPN | 50 | 30 | 5 | 100 | 20 | 50 | 150 | 50 | 2 | 0.8 | 0.5 | 1.0 | 100 | 12 | 100 | — | 50 | — | — | — |
| 2N5451 | CN-1 | 360 | NPN | 40 | 20 | 5 | 100 | 20 | 30 | 600 | 50 | 2 | 1.0 | 0.5 | 1.0 | 100 | 12 | 100 | — | 50 | — | — | — |
| 2N5550 | CT | 350 | NPN | 160 | 140 | 6 | 100 | 100 | 60 | — | 1 | 5 | 0.15 | — | 1.0 | 10 | 6 | 100 | 400 | 10 | — | 10 | 19 |
| | | | | | | | | | 60 | 250 | 10 | 5 | 0.25 | — | 1.2 | 50 | | | | | | | |
| | | | | | | | | | 20 | — | 50 | 5 | | | | | | | | | | | |
| 2N5551 | CT | 350 | NPN | 180 | 160 | 6 | 50 | 120 | 80 | — | 1 | 5 | 0.15 | — | 1.0 | 10 | 6 | 100 | 300 | 10 | — | 8 | 19 |
| | | | | | | | | | 80 | 250 | 10 | 5 | 0.25 | — | 1.2 | 50 | | | | | | | |
| | | | | | | | | | 30 | — | 50 | 5 | | | | | | | | | | | |
| 2N5810 | CN-1 | 500 | NPN | 35 | 25 | 5 | 100 | 25 | 60 | 200 | 2 | 2 | 0.75 | — | 1.2 | 500 | 15 | 100 | — | 50 | — | — | — |
| | | | | | | | | | 45 | — | 500 | 2 | | | | | | | | | | | |
| 2N5811 | CN-1 | 500 | PNP | -35 | -25 | -5 | -100 | -25 | 60 | 200 | -2 | -2 | -0.75 | — | -1.2 | -500 | 15 | 100 | — | -50 | — | — | — |
| | | | | | | | | | 45 | — | -500 | -2 | | | | | | | | | | | |
| 2N5812 | CN-1 | 500 | NPN | 35 | 25 | 5 | 100 | 25 | 150 | 500 | 2 | 2 | 0.75 | — | 1.2 | 500 | 15 | 135 | — | 50 | — | — | — |
| | | | | | | | | | 60 | — | 500 | 2 | | | | | | | | | | | |



| Style | | Pin Number | | |
|---------|--------|------------|---|---|
| Pinning | Figure | 1 | 2 | 3 |
| CN | A | C | B | E |
| CN-1 | B | C | B | E |
| CN-2 | D | C | B | E |

FIGURE A
T0-92 (T0-226AA) In-Line Pinning

