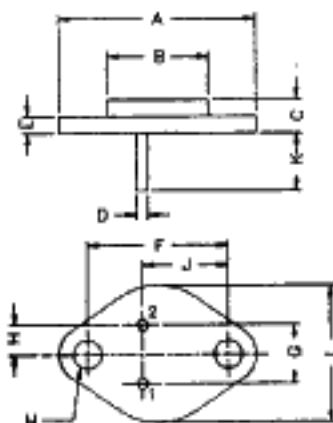
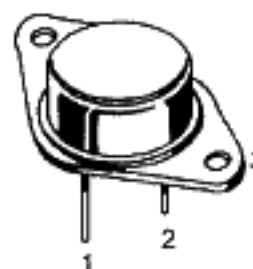


# TO-3



| DIM | MIN   | MAX   |
|-----|-------|-------|
| A   | —     | 39,37 |
| B   | —     | 22,22 |
| C   | 6,35  | 8,50  |
| D   | 0,98  | 1,09  |
| E   | —     | 1,77  |
| F   | 29,90 | 30,4  |
| G   | 10,69 | 11,18 |
| H   | 5,20  | 5,72  |
| J   | 16,64 | 17,15 |
| K   | 11,15 | 12,25 |
| L   | —     | 26,67 |
| M   | 3,84  | 4,19  |

ALL DIMENSIONS ARE IN M.M.



PIN CONFIGURATION

1. BASE
2. EMITTER
3. COLLECTOR

## TO-3 Power Package Transistors (NPN)

| Maximum Ratings |                             |                             |                             |                                              |                    |                              |                                         | Electrical Characteristics (T <sub>a</sub> =25°C, Unless Otherwise Specified) |                                          |                            |                            |                                         |                                         |                                   |                                 |                                 |                                         |                             |                             |                             |          |                     |
|-----------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------------------|--------------------|------------------------------|-----------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|----------------------------|----------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------|---------------------------------|---------------------------------|-----------------------------------------|-----------------------------|-----------------------------|-----------------------------|----------|---------------------|
| Type No.        | V <sub>CEO</sub> (V)<br>Min | V <sub>CE0</sub> (V)<br>Min | V <sub>EB0</sub> (V)<br>Min | P <sub>D</sub> (W)<br>@ T <sub>c</sub> =25°C | I <sub>C</sub> (A) | I <sub>CEO</sub> (μA)<br>Max | V <sub>CE</sub> (V)<br>@ I <sub>C</sub> | I <sub>CE</sub> (μA)<br>Max                                                   | V <sub>CE</sub> (V)<br>@ I <sub>CE</sub> | I <sub>FE</sub> (A)<br>Min | I <sub>FE</sub> (A)<br>Max | I <sub>B</sub> (A)<br>@ V <sub>CE</sub> | V <sub>CE</sub> (V)<br>@ I <sub>B</sub> | V <sub>CE(SAT)</sub> (V) &<br>Max | V <sub>BE(SAT)</sub> (V)<br>Min | V <sub>BE(SAT)</sub> (V)<br>Max | I <sub>C</sub> (A)<br>@ V <sub>BE</sub> | C <sub>ob</sub> (pF)<br>Max | f <sub>t</sub> (MHz)<br>Min | f <sub>t</sub> (MHz)<br>Typ | β<br>Max | I <sub>C</sub> (mA) |
| 2N3055          | 100                         | 60                          | 7                           | 117                                          | 15                 |                              |                                         | *1000                                                                         | 100                                      | 20                         | 70                         | 4                                       | 4                                       | 1.1                               |                                 | 4                               |                                         |                             | 2.5                         |                             |          | 500                 |
| 2N3055HV        | 100                         | 100                         | 7                           | 90                                           | 15                 |                              |                                         | *1000                                                                         | 100                                      | 20                         | 100                        | 4                                       | 4                                       | 1.1                               |                                 | 4                               |                                         |                             | 2.5                         |                             |          | 500                 |
| 2N3055S         | 100                         | 60                          | 7                           | 90                                           | 15                 |                              |                                         | *1000                                                                         | 100                                      | 20                         | 100                        | 4                                       | 4                                       | 1.1                               |                                 | 4                               |                                         |                             | 2.5                         |                             |          | 500                 |
| 2N3773          | 160                         | 140                         | 7                           | 150                                          | 16                 | 2000                         | 140                                     |                                                                               |                                          | 15                         | 60                         | 8                                       | 4                                       | 1.4                               |                                 | 8                               |                                         |                             |                             |                             |          |                     |
| 2N4347          | 140                         | 120                         | 7                           | 100                                          | 5                  |                              |                                         | *2000                                                                         | 125                                      | 15                         | 60                         | 2                                       | 4                                       | 1                                 |                                 | 2                               |                                         |                             |                             |                             |          | 500                 |
| 2N6253          | 50                          | 45                          | 7                           | 115                                          | 15                 |                              |                                         | *2000                                                                         | 55                                       | 20                         | 70                         | 3                                       | 4                                       | 1.0                               |                                 | 3                               |                                         |                             |                             |                             |          |                     |
| 2N6257          | 50                          | 40                          | 5                           | 150                                          | 20                 | 4000                         | 50                                      |                                                                               |                                          | 15                         | 75                         | 8                                       | 4                                       | 1.5                               |                                 | 8                               |                                         | 200                         |                             |                             |          | 1000                |
| 2N6371          | 50                          | 40                          | 7                           | 117                                          | 15                 |                              |                                         |                                                                               |                                          | 15                         | 60                         | 8                                       | 4                                       | 1.5                               |                                 | 8                               |                                         | 900                         |                             |                             |          | 1000                |
| 2N6371HV        | 100                         | 100                         | 5                           | 90                                           | 15                 |                              |                                         | *2000                                                                         | 45                                       | 15                         | 60                         | 8                                       | 4                                       | 1.5                               |                                 | 8                               | 330                                     | 2.5                         |                             |                             |          | 500                 |
| 2SC1308         | #1500                       | 400                         | 6                           | 50                                           | 5                  |                              |                                         | 1000                                                                          | 1500                                     | 3                          |                            | 4                                       | 5                                       | 5.0                               | 1.5                             | 4                               |                                         |                             |                             |                             | 3        | 100                 |
| 2SC1413         | 1200                        | 500                         | 6                           | 50                                           | 5                  | \$1000                       | 1200                                    |                                                                               |                                          |                            |                            |                                         |                                         | 10                                | 2.0                             | 5                               |                                         |                             |                             |                             |          |                     |
| 2SC1413A        | 1500                        | 500                         | 6                           | 50                                           | 5                  | \$1000                       | 1500                                    |                                                                               |                                          |                            |                            |                                         |                                         | 10                                | 2.0                             | 5                               |                                         |                             |                             |                             |          |                     |
| 2SC1454         | 300                         | 300                         | 6                           | 50                                           | 4                  | 1000                         | 300                                     |                                                                               |                                          | 20                         |                            | 1                                       | 5                                       | 1.5                               | 1.4                             | 2.5                             |                                         |                             |                             |                             |          |                     |
| 2SC1875         | 150                         | 500                         | 6                           | 50                                           | 3.5                | 20                           | 1000                                    |                                                                               |                                          | 5                          | 35                         | 0.5                                     | 10                                      | 10                                | 0.8                             | 1.2                             | 2.5                                     |                             |                             |                             |          |                     |
| 2SC1922         | 1500                        | 900                         | 6                           | 50                                           | 2.5                | 10                           | 600                                     |                                                                               |                                          | 5                          | 25                         | 2                                       | 10                                      |                                   | 1.5                             | 2                               |                                         |                             |                             |                             |          |                     |

#NOTE: V<sub>CE</sub>

\*NOTE: I<sub>CE</sub>

\$NOTE: I<sub>CE</sub>