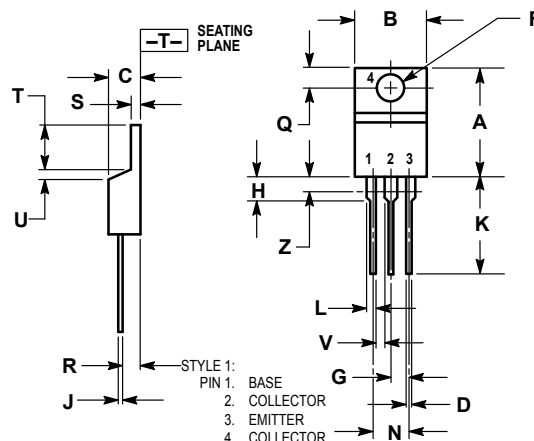
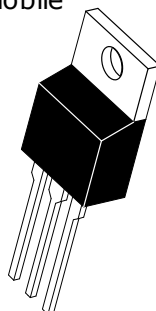


### DESCRIPTION

Designed for RF power amplifier on HF band mobile radio applications.

### FEATURES

- Specified 12V, 27MHz Characteristics
- $P_O = 18.5W$
- $G_P = 10.5 \text{ dB min. at } 18.5 \text{ W/27 MHz}$
- Emitter ballasted construction



### DIMENSIONS

| UNIT   | A     | B     | C    | D     | F     | G     | H     | J     | K     | L     | N     | Q    | R    | S     | T     | U    | V     | Z    |
|--------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|------|-------|------|
| mm     | 15.75 | 10.28 | 4.82 | 0.88  | 3.73  | 2.66  | 3.93  | 0.64  | 14.27 | 1.52  | 5.33  | 3.04 | 2.79 | 1.39  | 6.47  | 1.27 | --    | 2.04 |
| inches | 0.620 | 0.405 | 0.19 | 0.035 | 0.147 | 0.105 | 0.155 | 0.025 | 0.562 | 0.060 | 0.210 | 0.12 | 0.11 | 0.055 | 0.255 | 0.05 | --    | 0.08 |
|        | 0.570 | 0.380 | 0.16 | 0.025 | 0.142 | 0.095 | 0.110 | 0.018 | 0.500 | 0.045 | 0.190 | 0.10 | 0.08 | 0.045 | 0.235 | 0.00 | 0.045 | --   |

### MAXIMUM RATINGS

| CHARACTERISTICS             | SYMBOL     | RATINGS    | UNITS |
|-----------------------------|------------|------------|-------|
| Collector-Base Voltage      | $V_{CBO}$  | 60         | V     |
| Collector-Emitter Voltage   | $V_{CES}$  | 60         | V     |
| Collector-Emitter Voltage   | $V_{CEO}$  | 20         | V     |
| Collector Current           | $I_C$      | 6          | A     |
| Emitter-Base Voltage        | $V_{EBO}$  | 5          | V     |
| Collector Power Dissipation | $P_{DISS}$ | 25         | W     |
| Junction Temperature        | $T_J$      | -65 to 175 | °C    |
| Storage Temperature Range   | $T_{STG}$  | -65 to 175 | °C    |

### ELECTRICAL CHARACTERISTICS

| CHARACTERISTICS                     | SYMBOL        | TEST CONDITIONS                  | MIN. | TYP. | MAX. | UNITS |
|-------------------------------------|---------------|----------------------------------|------|------|------|-------|
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = 10mA, I_B = 0$            | 20   | -    | -    | V     |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CES}$ | $I_C = 1mA, V_{EB} = 0$          | 60   | -    | -    | V     |
| Emitter-Base Breakdown Voltage      | $V_{(BR)EBO}$ | $I_E = 5mA, I_C = 0$             | 5    | -    | -    | V     |
| Collector Cutoff Current            | $I_{CBO}$     | $V_{CB} = 30V, I_E = 0$          |      |      | 500  | uA    |
| DC Current Gain                     | $h_{FE}$      | $V_{CE} = 12V, I_C = 100mA$      | 20   | 50   | 180  |       |
| Power Gain                          | $G_P$         | $V_{CC} = 12V, P_{OUT} = 18.5W,$ | 10.5 | -    | -    | dB    |
| Collector Efficiency                | $\eta_C$      | $f = 27MHz, P_{IN} = 1.5W$       | 60   | 70   | -    | %     |

Note : Above parameters , ratings , limits and conditions are subject to change.