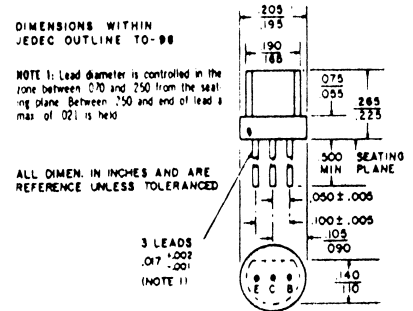




absolute maximum ratings: (25°C) (unless otherwise specified)

| | | | |
|----------------------------------|-----------|---------------|----|
| Voltages | | | |
| Collector to Emitter | V_{CEO} | 18 | V |
| Emitter to Base | V_{EBO} | 5 | V |
| Collector to Base | V_{CBO} | 18 | V |
| Current | | | |
| Collector (Steady State)* | I_C | 100 | ma |
| Dissipation | | | |
| Total Power (Free air at 25°C)** | P_T | 360 | mw |
| Total Power (Free air at 55°C)** | P_T | 260 | mw |
| Temperature | | | |
| Storage | T_{STG} | -55 to +125°C | |
| Operating | T_J | +125°C | |

*Determined from power limitations due to saturation voltage at this current.
 **Derate 2.67 mw/°C increase in ambient temperature above 25°C.



electrical characteristics: (25°C) (unless otherwise specified)

| | Sym. | Min. | Max. | Units |
|--|---------------|------|------|---------|
| STATIC CHARACTERISTICS | | | | |
| Collector Cutoff Current ($V_{CB} = 18V$) | I_{CBO} | | 0.1 | μA |
| ($V_{CB} = 18V, T_A = 100^\circ C$) | I_{CBO} | | 10.0 | μA |
| Emitter Cutoff Current ($V_{EB} = 5V$) | I_{EBO} | | 0.1 | μA |
| Collector Cutoff Current ($V_{CE} = 25V$) | I_{CES} | | 0.1 | μA |
| Forward Current Transfer Ratio ($V_{CE} = 4.5V, I_C = 2mA$) | h_{FE} | 400 | 800 | |
| Collector-Emitter Breakdown Voltage ($I_C = 1mA$) | $V_{(BR)CEO}$ | 25 | | V |
| DYNAMIC CHARACTERISTICS | | | | |
| Forward Current Transfer Ratio ($V_{CE} = 4.5V, I_C = 2mA, f = 1kHz$) | h_{fe} | 400 | 1250 | |
| Output Capacitance, Common Base ($V_{CB} = 10V, I_E = 0, f = 1MHz$) | C_{cbo} | 2 | 10 | pF |

