

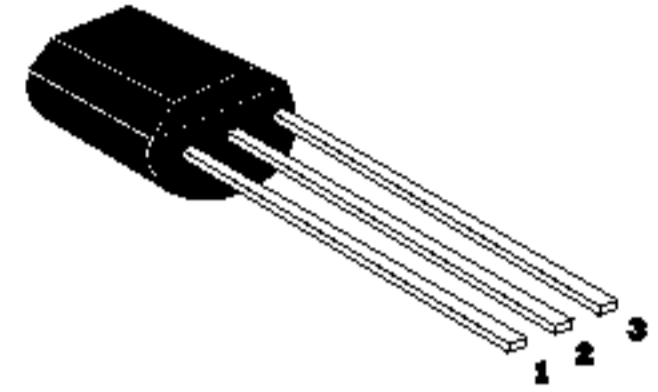


**HIGH VOLTAGE TRANSISTOR**

2

- \* Collector-Emitter Voltage  $V_{ce0}=400V$
- \* Collector Dissipation  $P_c(\text{Max})=625 \text{ mW}$  ( $T_a=25^\circ\text{C}$ )

Package: TO-92



**ABSOLUTE MAXIMUM RATINGS at  $T_{amb}=25^\circ\text{C}$**

| Characteristic            | Symbol    | Rating  | Unit             |
|---------------------------|-----------|---------|------------------|
| Collector-Base Voltage    | $V_{cbo}$ | 450     | V                |
| Collector-Emitter Voltage | $V_{ceo}$ | 400     | V                |
| Emitter-Base Voltage      | $V_{ebo}$ | 7       | V                |
| Collector Current         | $I_c$     | 200     | mA               |
| Collector Dissipation     | $P_c$     | 625     | mW               |
| Junction Temperature      | $T_j$     | 150     | $^\circ\text{C}$ |
| Storage Temperature       | $T_{stg}$ | -55~150 | $^\circ\text{C}$ |

| PIN:  | 1 | 2 | 3 |
|-------|---|---|---|
| STYLE |   |   |   |
| NO.1  | E | C | B |

**ELECTRICAL CHARACTERISTICS at  $T_{amb}=25^\circ\text{C}$**

| Characteristic                       | Symbol        | Min | Typ | Max | Unit          | Test Conditions  |
|--------------------------------------|---------------|-----|-----|-----|---------------|--|
| Collector-Base Breakdown Voltage     | $BV_{cbo}$    | 450 |     |     | V             | $I_c=100\mu\text{A}$ $I_e=0$                             |
| Collector-Emitter Breakdown Voltage  | $BV_{ceo}$    | 400 |     |     | V             | $I_c=1\text{mA}$ $I_b=0$                                 |
| Emitter-Base Breakdown Voltage       | $BV_{ebo}$    | 7   |     |     | V             | $I_e=100\mu\text{A}$ $I_c=0$                             |
| Collector Cutoff Current             | $I_{cbo}$     |     |     | 10  | $\mu\text{A}$ | $V_{cb}=420\text{V}$ $I_e=0$                             |
| Emitter Cutoff Current               | $I_{ebo}$     |     |     | 10  | $\mu\text{A}$ | $V_{eb}=7\text{V}$ $I_c=0$                               |
| DC Current Gain                      | $H_{fe}$      | 8   |     | 40  |               | $V_{ce}=10\text{V}$ $I_c=5\text{mA}$                     |
| Collector-Emitter Saturation Voltage | $V_{ce(sat)}$ |     |     | 0.4 | V             | $I_c=50\text{mA}$ $I_b=10\text{mA}$                      |
| Base-Emitter Saturation Voltage      | $V_{be(sat)}$ |     |     | 1   | V             | $I_c=50\text{mA}$ $I_b=10\text{mA}$                      |
| Current Gain-Bandwidth product       | $f_T$         | 10  |     |     | MHz           | $V_{ce}=10\text{V}$ $I_c=10\text{mA}$<br>$f=1\text{MHz}$ |