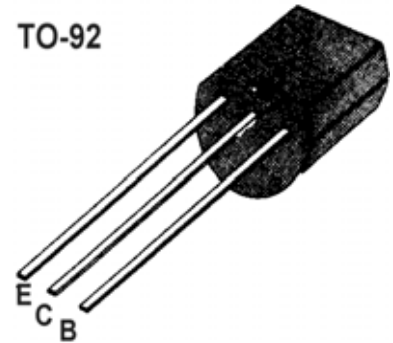


**■■ APPLICATION: AMPLIFIER APPLICATIONSWITCH APPLICATION.**
**■■ MAXIMUM RATINGS (Ta=25°C)**

| PARAMETER                   | SYMBOL           | RATING   | UNIT |
|-----------------------------|------------------|----------|------|
| Collector-base voltage      | V <sub>CBO</sub> | -25      | V    |
| Collector-emitter voltage   | V <sub>CEO</sub> | -20      | V    |
| Emitter-base voltage        | V <sub>EBO</sub> | -5       | V    |
| Collector current           | I <sub>C</sub>   | -1       | A    |
| Collector Power Dissipation | P <sub>C</sub>   | 900      | mW   |
| Junction Temperature        | T <sub>J</sub>   | 150      | °C   |
| Storage Temperature Range   | T <sub>stg</sub> | - 55~150 | °C   |


**■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)**

| PARAMETER                            | SYMBOL               | MIN. | TYP. | MAX. | UNIT | TEST CONDITION                                     |
|--------------------------------------|----------------------|------|------|------|------|--|
| DC Current Gain                      | h <sub>FE</sub>      | 85   |      | 240  |      | V <sub>CE</sub> =-2 V, I <sub>C</sub> =-500 mA     |
| Collector Cut-off Current            | I <sub>CBO</sub>     |      |      | -1.0 | μA   | V <sub>CB</sub> =-20 V, I <sub>E</sub> =0          |
| Emitter Cut-off Current              | I <sub>EBO</sub>     |      |      | -1   | μA   | V <sub>EB</sub> =-5 V, I <sub>C</sub> =0           |
| Collector-Base Breakdown Voltage     | BV <sub>CBO</sub>    | -25  |      |      | V    | I <sub>C</sub> = -0.1mA, I <sub>E</sub> =0         |
| Collector-Emitter Breakdown Voltage  | BV <sub>CEO</sub>    | -20  |      |      | V    | I <sub>C</sub> =-1 mA, I <sub>B</sub> =0           |
| Emitter-Base Breakdown Voltage       | BV <sub>EBO</sub>    | -5   |      |      | V    | I <sub>E</sub> =-0.1 mA, I <sub>C</sub> =0         |
| Base-Emitter Voltage                 | V <sub>BE</sub>      |      | -0.8 | -1   | V    | V <sub>CE</sub> =-2 V, I <sub>C</sub> = -500mA     |
| Collector-Emitter Saturation Voltage | V <sub>CE(sat)</sub> |      |      | -0.5 | V    | I <sub>C</sub> =-800 mA, I <sub>B</sub> =-80 mA    |
| Gain bandwidth product               | f <sub>T</sub>       |      | 350  |      | MHz  | I <sub>C</sub> =-500 mA, V <sub>CE</sub> =-2 V     |
| Common Base Output Capacitance       | C <sub>ob</sub>      |      | 38   |      | PF   | V <sub>CB</sub> =-10 V, I <sub>E</sub> =0, f=1 MHz |

**■■ h<sub>FE</sub> Classification**

| Classification  | B      | C       |
|-----------------|--------|---------|
| h <sub>FE</sub> | 85~170 | 120~240 |