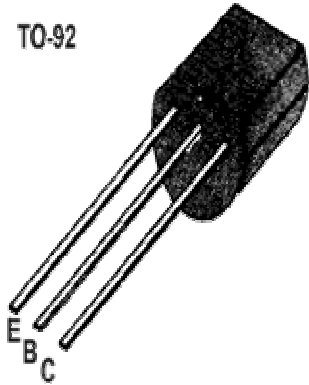


■■ APPLICATION: POWER AMPLIFIER APPLICATION, SWITCH APPLICATION

■■ MAXIMUM RATINGS (T_a=25°C)

| PARAMETER | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|----------|------|
| Collector-base voltage | V _{CB0} | 300 | V |
| Collector-emitter voltage | V _{CEO} | 300 | V |
| Emitter-base voltage | V _{EBO} | 5 | V |
| Collector current | I _c | 50 | mA |
| Collector Power Dissipation | P _c | 700 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature Range | T _{stg} | - 55~150 | °C |



■■ ELECTRICAL CHARACTERISTICS (T_a=25°C)

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|--------------------------------------|----------------------|------|------|------|------|--|
| DC Current Gain | h _{FE} | 40 | | 270 | | V _{CE} = 10V, I _c = 10mA |
| Collector Cut-off Current | I _{CB0} | | | 1 | μA | V _{CB} = 240V, I _E =0 |
| Emitter Cut-off Current | I _{EBO} | | | 1 | μA | V _{EB} = 5V, I _c =0 |
| Collector-Base Breakdown Voltage | BV _{CB0} | 300 | | | V | I _c = 0.1mA, I _E =0 |
| Collector-Emitter Breakdown Voltage | BV _{CEO} | 300 | | | V | I _c = 1mA, I _B =0 |
| Emitter-Base Breakdown Voltage | BV _{EBO} | 5 | | | V | I _E = 0.1mA, I _c =0 |
| Collector-Emitter Saturation Voltage | V _{CE(sat)} | | 0.2 | 1 | V | I _c = 50mA, I _B = 5mA |
| Base-Emitter Saturation Voltage | V _{BE(sat)} | | | 1 | V | I _c = 50mA, I _B = 5mA |
| Gain bandwidth product | f _T | 50 | | | MHz | I _c = 10mA, V _{CE} = 30V |

■■ h_{FE} Classification

Classification

h_{FE} 40~270