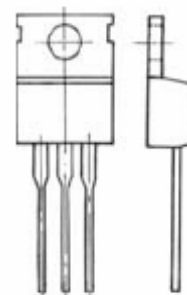


APPLICATION: Low Frequency Power Amplifier Applications.

MAXIMUM RATINGS (Ta=25°C)

| PARAMETER | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|----------|------|
| Collector-base voltage | V _{CB0} | 60 | V |
| Collector-emitter voltage | V _{CEO} | 60 | V |
| Emitter-base voltage | V _{EBO} | 7 | V |
| Collector current | I _c | 3 | A |
| Collector Power Dissipation | P _c | 1.5 / 30 | W |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature Range | T _{stg} | - 55~150 | °C |
| Resistance | R _{rj} | 4.17 | °C/W |

TO-220



1 2 3

1.Base 2.Collector 3.Emitter

ELECTRICAL CHARACTERISTICS

(Ta=25°C)

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|--------------------------------------|----------------------|------|------|------|------|--|
| DC Current Gain | h _{FE} | 60 | | 300 | | V _{CE} =5V, I _c = 0.5A |
| Collector Cut-off Current | I _{CB0} | | | 0.1 | mA | V _{CB} = 60V, I _E =0 |
| Emitter Cut-off Current | I _{EBO} | | | 0.1 | mA | V _{EB} = 7V, I _c =0 |
| Collector-Base Breakdown Voltage | BV _{CB0} | 60 | | | V | I _c = 1mA, I _E =0 |
| Collector-Emitter Breakdown Voltage | BV _{CEO} | 60 | | | V | I _c = 50mA, I _B =0 |
| Emitter-Base Breakdown Voltage | BV _{EBO} | 7 | | | V | I _E = 1mA, I _c =0 |
| Base-Emitter Voltage | V _{BE} | | 0.7 | 1 | V | V _{CE} =5V, I _c = 0.5A |
| Collector-Emitter Saturation Voltage | V _{CE(sat)} | | 0.4 | 1 | V | I _c = 3A, I _B = 0.3A |
| Gain bandwidth product | f _t | | 3 | | MHz | I _c = 0.5A, V _{CE} = 5V |
| Common Base Output Capacitance | C _{ob} | | 70 | | PF | V _{CB} = 10V, I _E =0, f=1MHz |

hFE Classification

| Classification | O | Y | GR |
|-----------------|--------|---------|---------|
| h _{FE} | 60~120 | 100~200 | 150~300 |