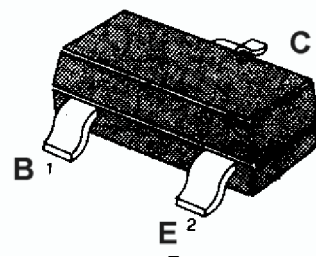


APPLICATION: Low Frequency Amplifier Applications.

MAXIMUM RATINGS (Ta=25°C)

| PARAMETER | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|----------|------|
| Collector-base voltage | V _{CB0} | -40 | V |
| Collector-emitter voltage | V _{CE0} | -32 | V |
| Emitter-base voltage | V _{EBO} | -5 | V |
| Collector current | I _c | -800 | mA |
| Collector Power Dissipation | P _c | 200 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature Range | T _{stg} | - 55~150 | °C |

SOT-23



1.Base 2.Emmitter 3.Collector

ELECTRICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|---------------------------------------|----------------------|------|------|------|------|---|
| DC Current Gain | h _{FE} | 82 | | 390 | | V _{CE} = -3V, I _c = -100mA |
| Collector Cut-off Current | I _{cBO} | | | -0.1 | μA | V _{CB} = -40V, I _E =0 |
| Emitter Cut-off Current | I _{EBO} | | | -1 | μA | V _{EB} = -5V, I _c =0 |
| Collector-Base Breakdown Voltage | BV _{CB0} | -40 | | | V | I _c = -1mA, I _E =0 |
| Collector-Emmitter Breakdown Voltage | BV _{CE0} | -32 | | | V | I _c = -10mA, I _B =0 |
| Emitter-Base Breakdown Voltage | BV _{EBO} | -5 | | | V | I _E = -1mA, I _c =0 |
| Base-Emmitter Voltage | V _{BE} | -0.5 | | -0.8 | V | V _{CE} = -1V, I _c = -10mA |
| Collector-Emmitter Saturation Voltage | V _{CE(sat)} | | | -0.6 | V | I _c = -500mA, I _B = -50mA |
| Gain bandwidth product | f _r | 80 | | | MHz | I _c = -10mA, V _{CE} = -10V |
| Common Base Output Capacitance | C _{ob} | | 8 | | PF | V _{CB} = -10V, I _E =0, f = 1MHz |

h_{FE} Classification And Marking

| | | | |
|-----------------|--------|---------|---------|
| Print Mark | T7P | T7Q | T7R |
| Classification | P | Q | R |
| h _{FE} | 82~180 | 120~270 | 180~390 |