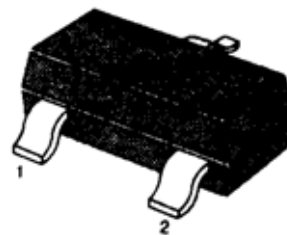


■■ APPLICATION: VHF~UHF Band Low Noise Amplifier Applications.

■■ MAXIMUM RATINGS (Ta=25°C)

SOT-323

| PARAMETER | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|---------|------|
| Collector-base voltage | V _{CBO} | 20 | V |
| Collector-emitter voltage | V _{CEO} | 12 | V |
| Emitter-base voltage | V _{EBO} | 3 | V |
| Collector current | I _C | 80 | mA |
| Collector Power Dissipation | I _B | 40 | mA |
| Junction Temperature | P _C | 100 | mW |
| Storage Temperature Range | T _J | 150 | °C |
| Storage Temperature Range | T _{stg} | -55~150 | °C |



1.Base 2 .Emitter 3. Collector

■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|-------------------------------------|-------------------|------|------|------|------|--|
| DC Current Gain | h _{FE} | 80 | | 240 | | V _{CE} = 10V, I _C = 20mA |
| Collector Cut-off Current | I _{CBO} | | | 1 | μA | V _{CB} = 10V, I _E =0 |
| Emitter Cut-off Current | I _{EBO} | | | 1 | μA | V _{EB} = 1V, I _C =0 |
| Collector-Base Breakdown Voltage | BV _{CBO} | 20 | | | V | I _C = 0.1mA, I _E =0 |
| Collector-Emitter Breakdown Voltage | BV _{CEO} | 12 | | | V | I _C = 1mA, I _B =0 |
| Emitter-Base Breakdown Voltage | BV _{EBO} | 3 | | | V | I _E = 0.1mA, I _C =0 |
| Gain bandwidth product | f _T | 5 | 7 | | GHz | I _C = 20mA, V _{CE} = 10V |
| Common Base Output Capacitance | C _{ob} | | 1 | | pF | V _{CB} = 10V, I _E =0, f = 1MHz |
| Common Base Output Capacitance | C _{re} | | 0.65 | 1.15 | pF | V _{CB} = 10V, I _E =0, f = 1MHz |
| Noise Figure | N _F | | 1.1 | 2 | dB | I _C = 5mA, V _{CE} = 10V, f= 1GHz |

■■ h_{FE} Classification And Marking

| | | |
|-----------------|--------|---------|
| Print Mark | MCO | MCY |
| Classification | O | Y |
| h _{FE} | 80~160 | 120~240 |