

Plastic-Encapsulate Transistors

TRANSISTOR (PNP)

FEATURES

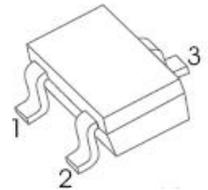
- Complementary to MMBT5551T
- Small Surface Mount Package
- Ideal for Medium Power Amplification and Switching

MARKING:2L

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|------------------|---|----------|------|
| V _{CB0} | Collector-Base Voltage | -160 | V |
| V _{CEO} | Collector-Emitter Voltage | -150 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| I _C | Collector Current | -600 | mA |
| P _C | Collector Power Dissipation | 200 | mW |
| R _{θJA} | Thermal Resistance From Junction To Ambient | 625 | °C/W |
| T _J | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55~+150 | °C |

SOT-523



1. BASE
2. EMITTER
3. COLLECTOR

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|------|-----|------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C =-100μA, I _E =0 | -160 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-1mA, I _B =0 | -150 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-10μA, I _C =0 | -5 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =-120V, I _E =0 | | | -50 | nA |
| Emitter cut-off current | I _{EBO} | V _{EB} =-3V, I _C =0 | | | -50 | nA |
| DC current gain | h _{FE} | V _{CE} =-5V, I _C =-1mA | 50 | | | |
| | | V _{CE} =-5V, I _C =-10mA | 60 | | 300 | |
| | | V _{CE} =-5V, I _C =-50mA | 50 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-50mA, I _B =-5mA | | | -0.5 | V |
| | | I _C =-10mA, I _B =-1mA | | | -0.2 | V |
| Base-emitter saturation voltage | V _{BE(sat)} | I _C =-50mA, I _B =-5mA | | | -1 | V |
| | | I _C =-10mA, I _B =-1mA | | | -1 | V |
| Transition frequency | f _T | V _{CE} =-10V, I _C =-10mA, f=100MHz | 100 | | | MHz |
| Collector output capacitance | C _{ob} | V _{CB} =-10V, I _E =0, f=1MHz | | | 6 | pF |

Typical Characteristics

