

MMBT4403 SOT-23 Plastic-Encapsulate Switching Transistors (PNP)

General description

SOT-23 Plastic-Encapsulate Switching Transistors (PNP)

FEATURES

- · Power Dissipation of 300mW
- High Stability and High Reliability
- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0

Marking:2T



Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

| Parameters | Symbol | Value | Unit |
|---|--------|----------|--------------|
| Collector-Base Voltage | Vсво | -40 | V |
| Collector-Emitter Voltage | VCEO | -40 | V |
| Emitter -Base Voltage | VEBO | -5 | V |
| Collector Current-Continuous | Ic | -600 | mA |
| Collector Power Dissipation | Pc | 300 | mW |
| Junction Temperature | Tj | 150 | $^{\circ}$ C |
| Storage Temperature | Tstg | -55-+150 | $^{\circ}$ C |
| Thermal resistance From junction to ambient | Reja | 417 | °C/W |

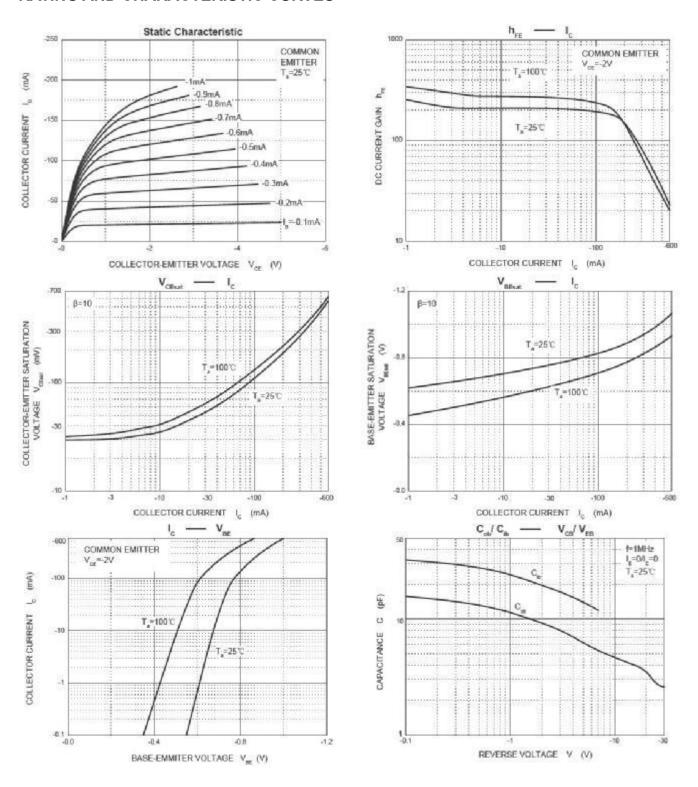
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

| Parameter | Symbols | | Limits | | |
|--------------------------------------|----------|--------------------------------------|--------|-------|------|
| | | Test Condition | Min | Max | Unit |
| Collector-base breakdown voltage | V(BR)CBO | IC=-100uA, IE=0 | -40 | | V |
| Collector-emitter breakdown voltage | V(BR)CEO | IC=-1mA, IB=0 | -40 | | V |
| Emitter-base breakdown voltage | V(BR)EBO | IE=-100uA, IC=0 | -5 | | V |
| Collector cut-off current | Ісво | VCB=-35V, IE=0 | | -100 | nA |
| Collector cut-off current | ICEX | VCE=-35V, VEB(off)=-0.4V | | -100 | nA |
| Emitter cut-off current | IEBO | VEB=-4V, IC=0 | | -100 | nA |
| DC current gain | hFE(1) | VCE=-1V, IC=-0.1mA | 30 | | |
| | hFE(2) | VCE=-1V, IC=-1mA | 60 | | |
| | hFE(3) | VCE=-1V, IC=-10mA | 100 | | |
| | hFE(4) | VCE=-2V, IC=-150mA | 100 | 300 | |
| | hFE(5) | VCE=-2V, IC=-500mA | 20 | | |
| Collector-emitter saturation voltage | VCE(sat) | IC=-150mA, IB=-15mA | | -0.40 | V |
| | | IC=-500mA, IB=-50mA | | -0.75 | V |
| Base -emitter saturation voltage | VBE(sat) | IC=-150mA, IB=-15mA | | -0.95 | V |
| | | IC=-500mA, IB=-50mA | | -1.30 | V |
| Transition frequency | fT | VCE=-10V, IC=-20mA,f=100MHz | 200 | | MHz |
| Delay time | td | VCC=-30V, VBE(off)=-0.5V, IC=-150mA, | | 15 | nS |
| Rise time | tr | IB1=-15mA | | 20 | nS |
| Storage time | ts | ., | | 225 | nS |
| Fall time | tf | VCC=-30V, IC=-150mA, IB1=IB2=-15mA | | 60 | nS |

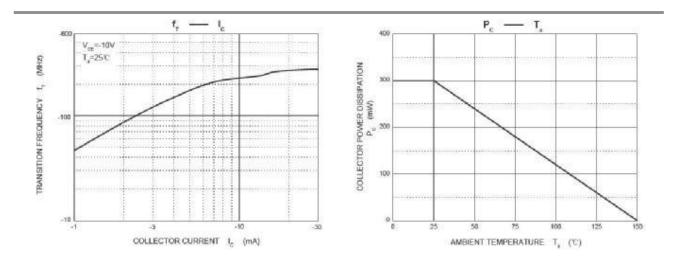
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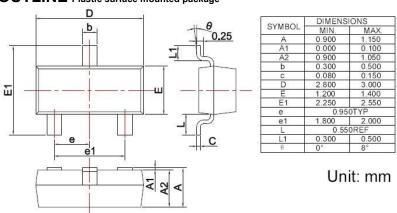
RATING AND CHARACTERISTIC CURVES





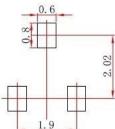


SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Precautions: PCB Design

Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.



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