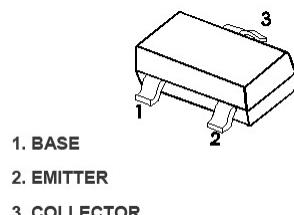


SOT-23

Marking: 3D
特征 Features

- 最大功率耗散 350mW; Power Dissipation of 350mW
- 高稳定性和可靠性。High Stability and High Reliability

机械数据 Mechanical Data

- 封装: SOT-23 封装 SOT-23 Small Outline Plastic Package
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

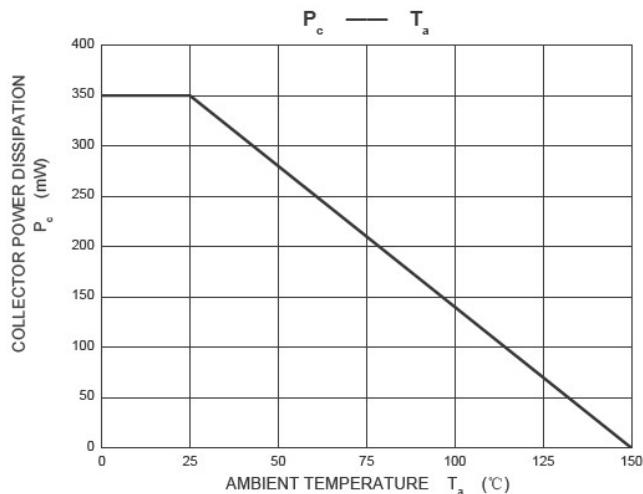
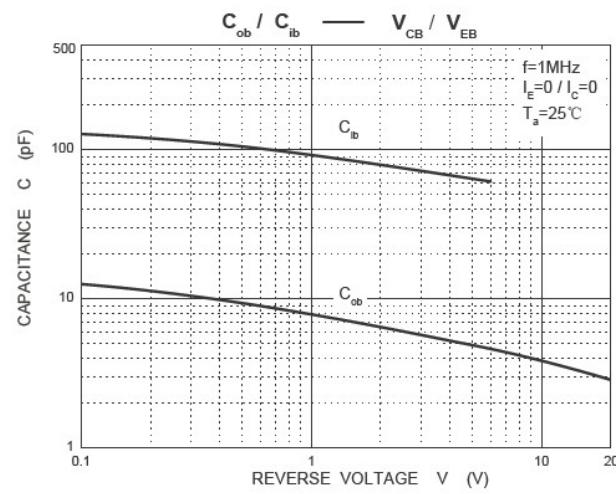
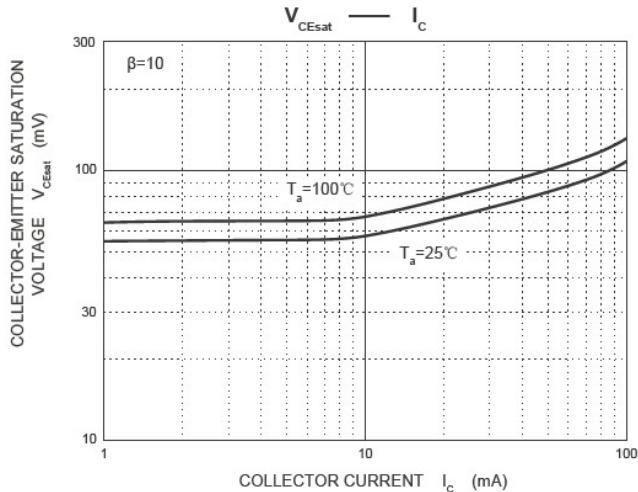
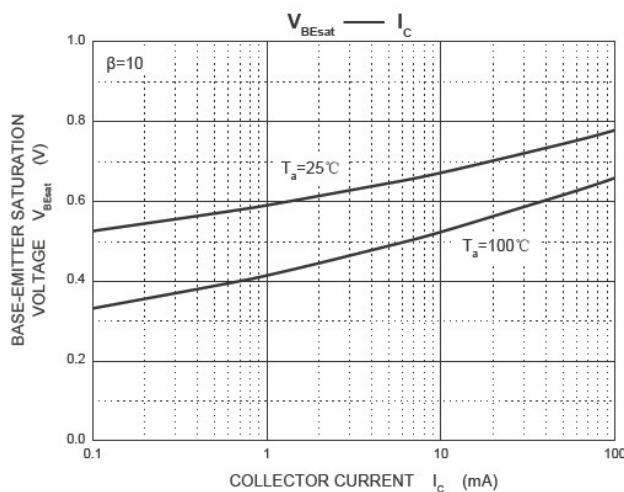
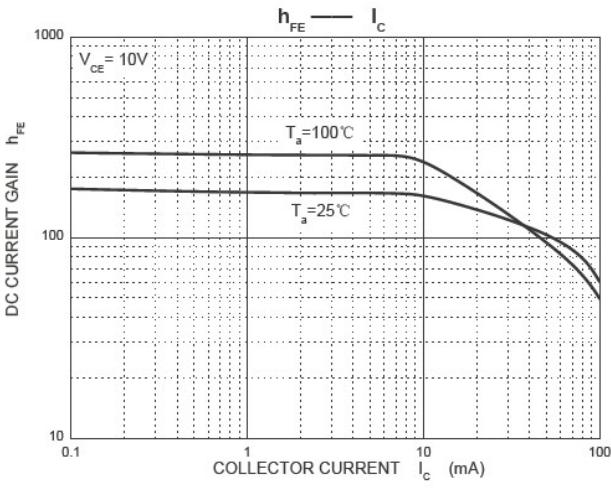
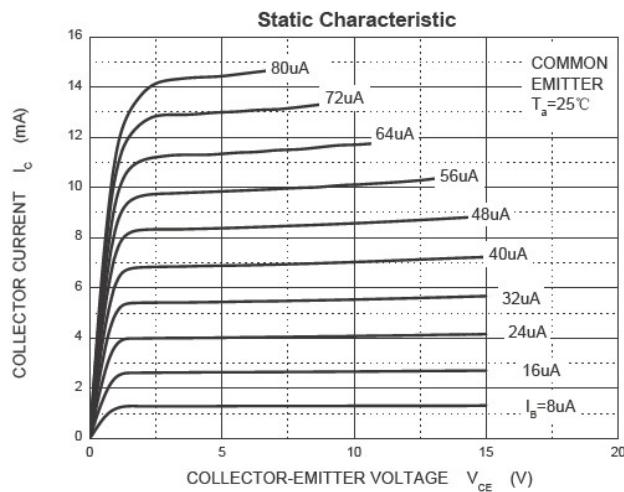
极限值和温度特性(TA = 25°C 除非另有规定)
Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

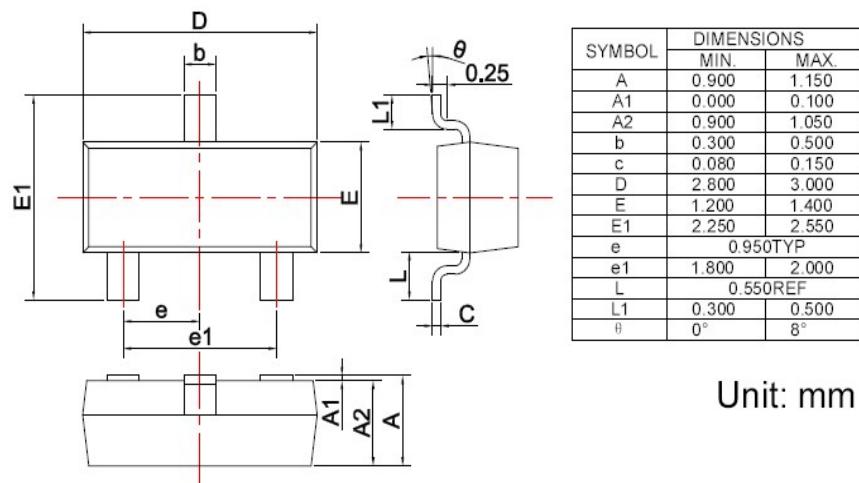
| 参数 Parameters | 符号 Symbol | 数值 Value | 单位 Unit |
|---|------------------|----------|---------|
| Collector-Base Voltage | V _{CBO} | 400 | V |
| Collector-Emitter Voltage | V _{CEO} | 400 | V |
| Emitter -Base Voltage | V _{EBO} | 6 | V |
| Collector Current-Continuous | I _c | 200 | mA |
| Collector Power Dissipation | P _c | 350 | mW |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature | T _{stg} | -55~+150 | °C |
| Thermal resistance From junction to ambient | R _{θJA} | 357 | °C/W |

电特性 (TA = 25°C 除非另有规定)
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

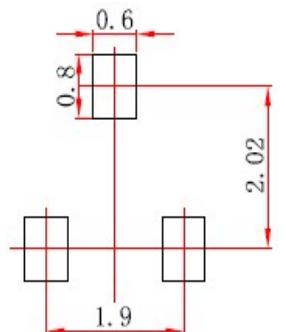
| 参数 Parameter | 符号 Symbols | 测试条件 Test Condition | 界限 Limits | | 单位 Unit |
|--------------------------------------|------------------------|--|-----------|------|---------|
| | | | Min | Max | |
| Collector-base breakdown voltage | V _{(BR)CBO} | I _c =100μA, I _e =0 | 400 | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _c =1mA, I _b =0 | 400 | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _e =10μA, I _c =0 | 6 | | V |
| Collector cut-off current | I _{cbo} | V _{CB} =400V, I _e =0 | | 100 | nA |
| Emitter cut-off current | I _{ebo} | V _{EB} =4V, I _c =0 | | 100 | nA |
| DC current gain | h _{FE(1)*} | V _{CE} =10V, I _c =1mA | 40 | | |
| | h _{FE(2)*} | V _{CE} =10V, I _c =10mA | 50 | 200 | |
| | h _{FE(3)*} | V _{CE} =10V, I _c =50mA | 45 | | |
| | h _{FE(4)*} | V _{CE} =10V, I _c =100mA | 40 | | |
| Collector-emitter saturation voltage | V _{CE(sat)1*} | I _c =1mA, I _b =0.1mA | | 0.40 | V |
| Collector-emitter saturation voltage | V _{CE(sat)2*} | I _c =10mA, I _b =1mA | | 0.50 | V |
| Collector-emitter saturation voltage | V _{CE(sat)3*} | I _c =50mA, I _b =5mA | | 0.75 | V |
| Base -emitter saturation voltage | V _{BE(sat)*} | I _c =10mA, I _b =1mA | | 0.75 | V |
| Collector output capacitance | C _{ob} | V _{CB} =20V, I _e =0; f=1MHz | 7 | | pF |
| Emitter input capacitance | C _{ib} | V _{EB} =0.5V, I _c =0; f=1MHz | | 130 | pF |

*Pulse test: pulse width≤300us, duty cycle≤2.0%.

Typical characteristics


SOT-23 PACKAGE OUTLINE Plastic surface mounted package

焊盘设计参考 Precautions: PCB Design

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


Note:

1. Controlling dimension: In millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

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