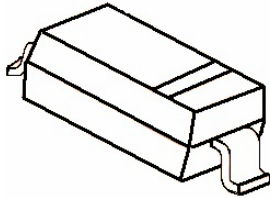


**SOD-123**

**Marking: S8**
**特征 Features**

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop

**机械数据 Mechanical Data**

- 封装: SOD-123 封装 SOD-123 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 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)

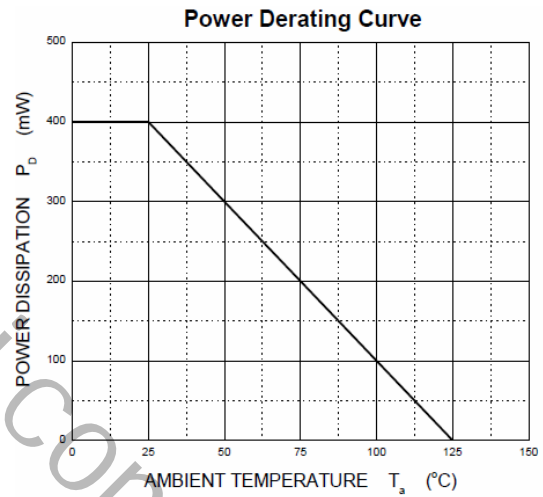
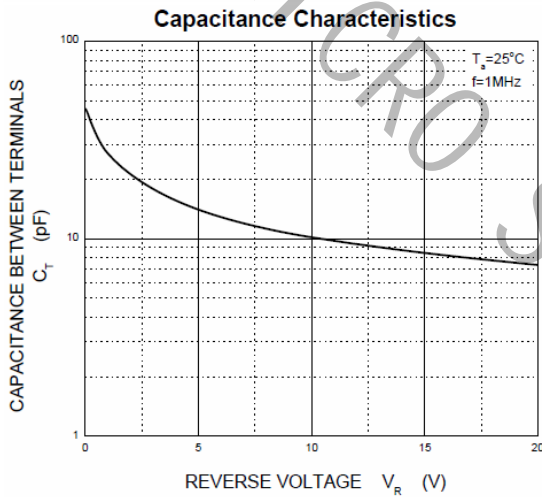
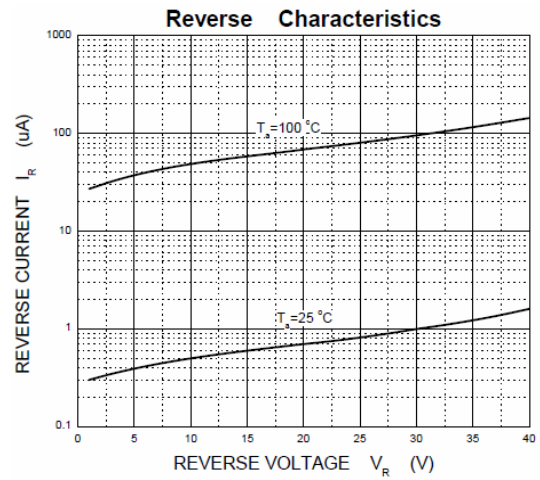
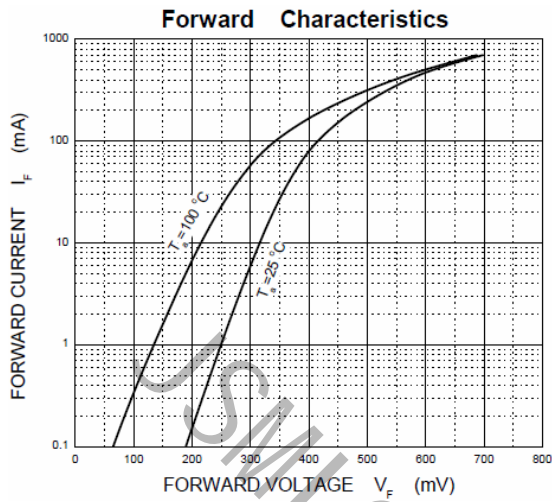
**Maximum Ratings & Thermal Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified.)

| 参数<br>Parameters   | 符号<br>Symbol | BAT43W   |  |  | 单位<br>Unit |
|--|--------------|----------|--|--|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage                           | VRRM         | 40       |  |  | V          |
| 最大均方根电压<br>Maximum RMS voltage   | VRMS         | 28       |  |  | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage  | VDC          | 40       |  |  | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                          | IFM          | 350      |  |  | mA         |
| 峰值正向浪涌电流 8.3ms 单一正弦半波<br>Peak forward surge current 8.3 ms single half sine-wave | IFSM         | 2        |  |  | A          |
| 功率消耗<br>Power Dissipation  | PD           | 400      |  |  | mW         |
| 典型热阻 T<br>Typical thermal resistance   | RθJA         | 250      |  |  | °C/W       |
| 工作结温<br>Operating junction temperature   | Tj           | 125      |  |  | °C         |
| 存储温度<br>Storage temperature range  | TSTG         | -50-+150 |  |  | °C         |

**电特性** (TA = 25°C 除非另有规定)

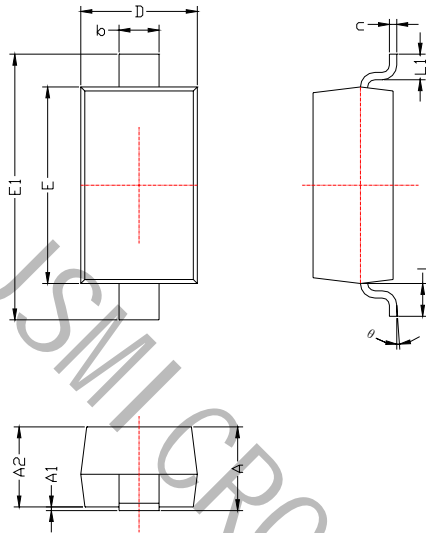
**Electrical Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified).

| 参数<br>Parameters                            | 符号<br>Symbol | 测试条件<br>Test conditions            | BAT43W         |    |    | 单位<br>Unit |
|---|--------------|------------------------------------|----------------|----|----|------------|
| 最大正向电压<br>Maximum forward voltage           | VF           | IF = 20mA<br>IF = 200mA            | 0.370<br>0.600 |    |    | V          |
| 最大反向电压<br>Maximum reverse breakdown voltage | VR           | IR=100uA                           | 40             | 30 | 20 | V          |
| 最大反向电流<br>Maximum reverse current           | IR           | VR=30V <b>BAT43W</b>               | 5.0            |    |    | uA         |
| 典型结电容<br>Type junction capacitance          | Cj           | VR =0V, f = 1MHz                   | 50             |    |    | pF         |
| 反向恢复时间<br>Reverse recovery time             | Trr          | IF=IR=200mA,<br>Irr=0.1xIR,RL=100Ω | 10             |    |    | ns         |

**特性曲线 Characteristic Curves**


**SOD-123 PACKAGE OUTLINE**

Plastic surface mounted package

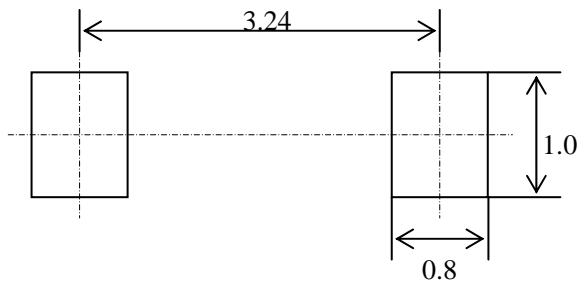


| SYMBOL   | DIMENSIONS |       |
|----------|------------|-------|
|          | MIN.       | MAX.  |
| A        | 1.050      | 1.250 |
| A1       | 0.000      | 0.100 |
| A2       | 1.050      | 1.150 |
| b        | 0.450      | 0.650 |
| c        | 0.080      | 0.150 |
| D        | 1.500      | 1.700 |
| E        | 2.600      | 2.800 |
| E1       | 3.550      | 3.850 |
| L        | 0.500REF   |       |
| L1       | 0.250      | 0.450 |
| $\theta$ | 0°         | 8°    |

**焊盘设计参考**

Precautions: PCB Design

Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs



技术要求:

- 中心距: 3.24
  - 脚宽: 0.55
  - 焊盘宽: 1.00
  - 脚长: 0.50
  - 焊盘长: 0.80
- 1, 塑封体尺寸: 2.70 X 1.60
  - 2: 未注公差为:  $\pm 0.05$
  - 3, 所有单位: mm

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