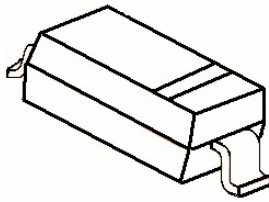


SOD-123



Marking: S4

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℃ 除非另有规定)

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

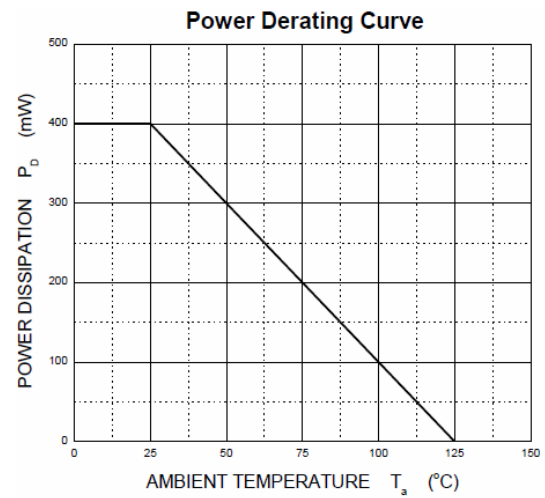
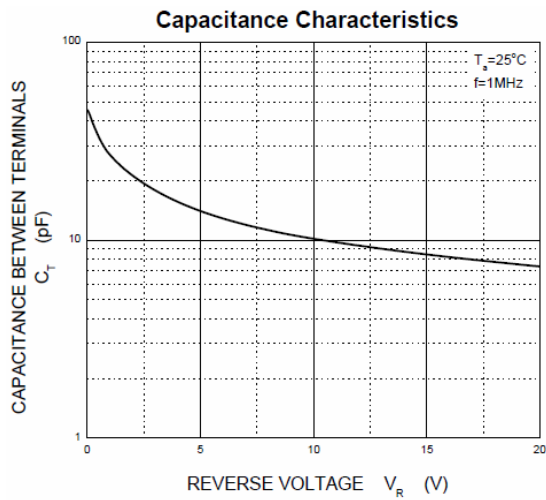
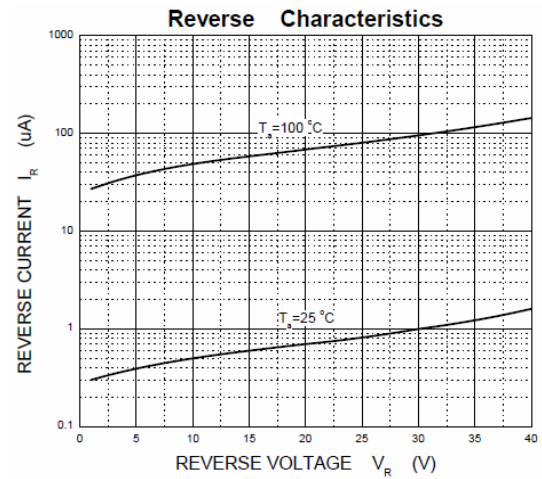
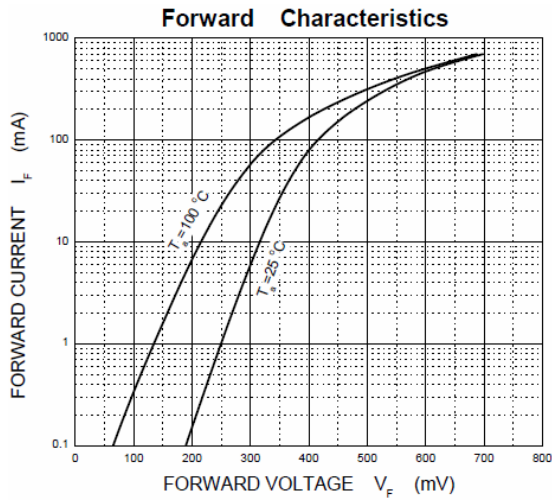
| 参数<br>Parameters                                                                 | 符号<br>Symbol     | SD103AW-E3-08-CN | 单位<br>Unit |
|----------------------------------------------------------------------------------|------------------|------------------|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive 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 <sub>θJA</sub><br>Typical thermal resistance                              | R <sub>θJA</sub> | 250              | ℃/W        |
| 工作结温<br>Operating junction temperature                                           | T <sub>j</sub>   | 125              | ℃          |
| 存储温度<br>Storage temperature range                                                | T <sub>STG</sub> | -50-+150         | ℃          |

电特性 (TA = 25℃ 除非另有规定)

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

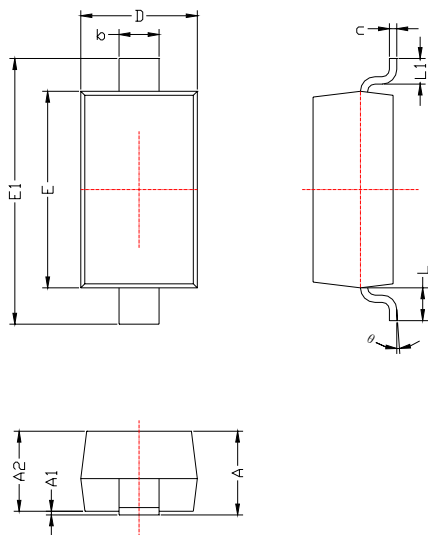
| 参数<br>Parameters                            | 符号<br>Symbol    | 测试条件<br>Test conditions             | SD103AW-E3-08-CN | 单位<br>Unit |
|---------------------------------------------|-----------------|-------------------------------------|------------------|------------|
| 最大正向电压<br>Maximum forward voltage           | V <sub>F</sub>  | IF = 20mA<br>IF = 200mA             | 0.370<br>0.600   | V          |
| 最大反向电流<br>Maximum reverse breakdown voltage | V <sub>R</sub>  | IR=100uA                            | 40               | V          |
| 最大反向电流<br>Maximum reverse current           | I <sub>R</sub>  | VR=30V                              | 5.0              | uA         |
| 典型结电容<br>Type junction capacitance          | C <sub>j</sub>  | VR =0V, f = 1MHz                    | 50               | pF         |
| 反向恢复时间<br>Reverse recovery time             | T <sub>rr</sub> | IF=IR=200mA,<br>Irr=0.1xIR,RL=100 Ω | 10               | ns         |

特性曲线 Characteristic Curves



SOD-123 PACKAGE OUTLINE

Plastic surface mounted package

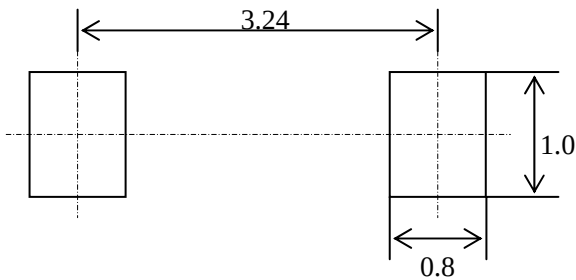


| SYMBOL | DIMENSIONS |       |
|--------|------------|-------|
|        | MIN.       | MAX.  |
| A      | 1.050      | 1.250 |
| A1     | 0.000      | 0.100 |
| A2     | 1.050      | 1.150 |
| b      | 0.450      | 0.650 |
| c      | 0.080      | 0.150 |
| D      | 1.500      | 1.700 |
| E      | 2.600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

焊盘设计参考

Precautions: PCB Design

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



中心距: 3.24  
脚 宽: 0.55  
焊盘宽: 1.00  
脚 长: 0.50  
焊盘长: 0.80

技术要求:  
1, 塑封体尺寸: 2.70 X 1.60  
2: 未注公差为: ±0.05  
3, 所有单位: mm

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