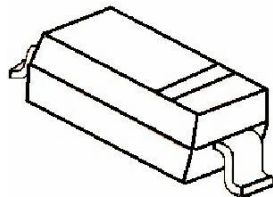


SOD-123



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℃ 除非另有规定)

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

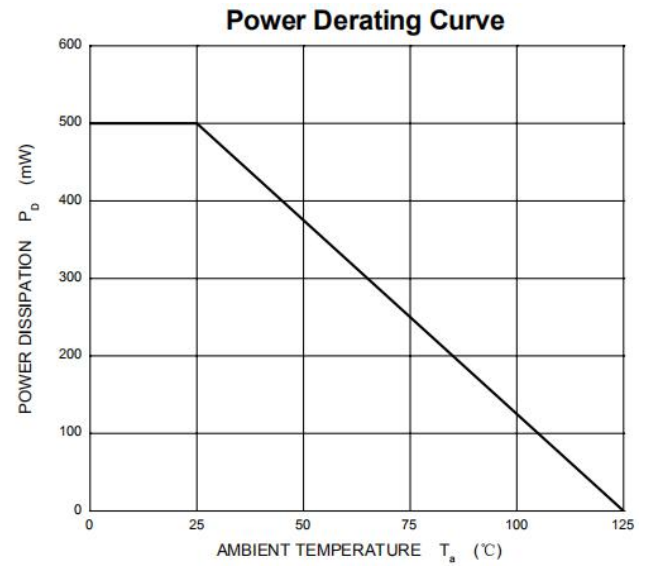
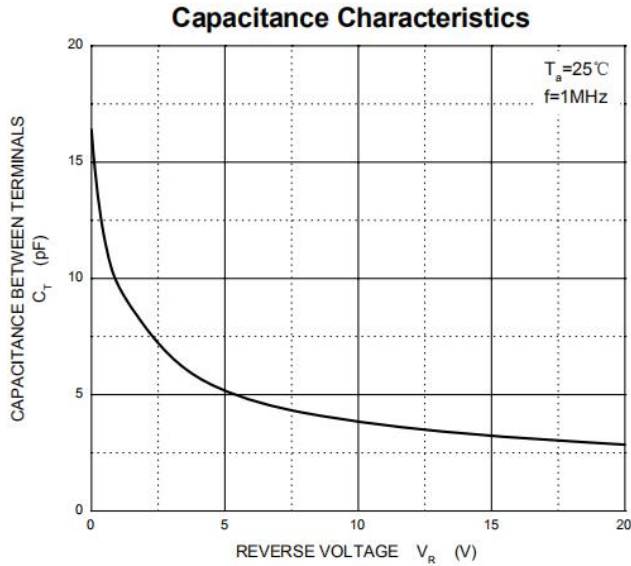
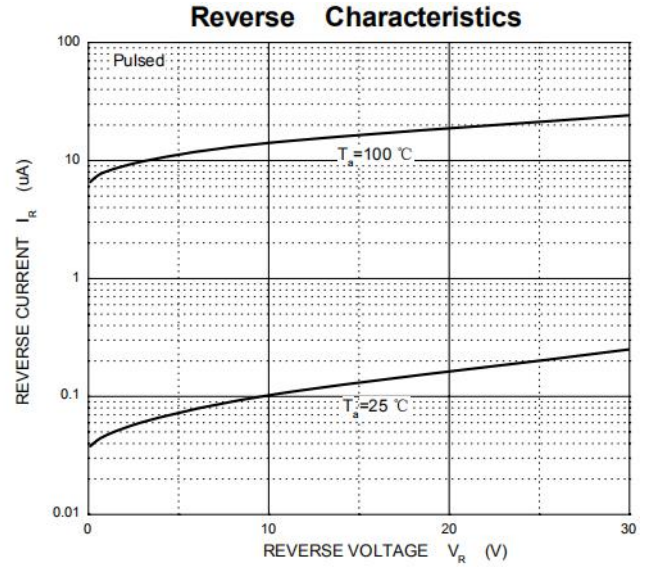
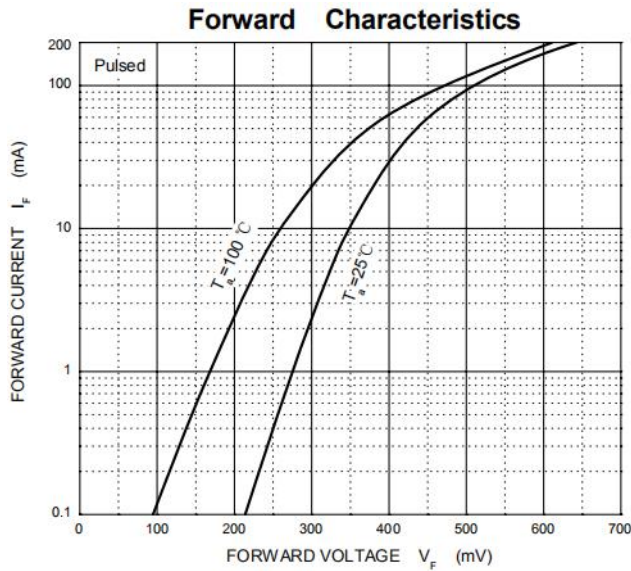
| 参数<br>Parameters                                                                 | 符号<br>Symbol | BAT43W-E3-08-CN | 单位<br>Unit |
|----------------------------------------------------------------------------------|--------------|-----------------|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage                           | VRRM         | 30              | V          |
| 最大均方根电压<br>Maximum RMS voltage                                                   | VRMS         | 21              | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage                                          | VDC          | 30              | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                          | IFM          | 200             | mA         |
| 峰值重复正向电流<br>Repetitive Peak Forward Current @t<1.0s                              | IFRM         | 500             | 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         | 4.0             | A          |
| 典型热阻<br>Typical thermal resistance                                               | RθJA         | 200             | ℃/W        |
| 功率消耗<br>Power Dissipation                                                        | PD           | 500             | mW         |
| 结温<br>Junction Temperature                                                       | Tj           | 125             | ℃          |
| 存储温度<br>Storage temperature range                                                | TSTG         | -50-+150        | ℃          |

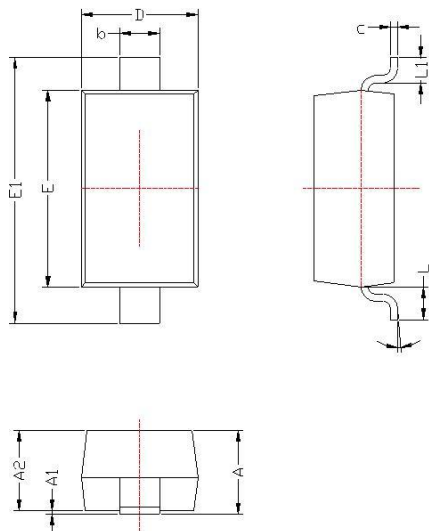
电特性 (TA = 25℃ 除非另有规定)

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           | Min  | Typ | Max  | 单位<br>Unit |
|---------------------------------------------|--------------|-----------------------------------|------|-----|------|------------|
| 最大正向电压<br>Maximum forward voltage           | VF           | IF = 200mA                        |      |     | 1.0  | V          |
|                                             | VF           | IF = 2.0mA                        | 0.26 |     | 0.33 |            |
|                                             | VF           | IF = 15mA                         |      |     | 0.45 |            |
| 最大反向电压<br>Maximum reverse breakdown voltage | VR           | IR=10uA                           | 30   |     |      | V          |
| 最大反向电流<br>Maximum reverse current           | IR           | VR=25V                            |      |     | 0.5  | uA         |
| 典型结电容<br>Type junction capacitance          | Cj           | VR = 1.0V, f = 1MHz               |      |     | 10   | pF         |
| 反向恢复时间<br>Reverse recovery time             | trr          | IF=IR=10mA<br>Irr=0.1xIR,RL=100 Ω |      |     | 5    | nS         |

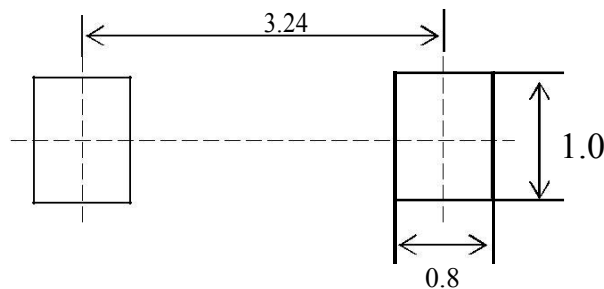
## Typical Characteristics



**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)



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:  $\pm 0.05$
- 3, 所有单位: mm

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