

MARKING: T4

**特征 Features**

- 开关速度小于 4.0nS; Fast Switching Device (TRR <4.0 nS)
- 最大功率耗散 200mW; Power Dissipation of 200mW
- 高稳定性和可靠性。High Stability and High Reliability
- 反向漏电流小。Low reverse leakage

**机械数据 Mechanical Data**

- 封装: SOD-323 封装 SOD-323 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 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.)

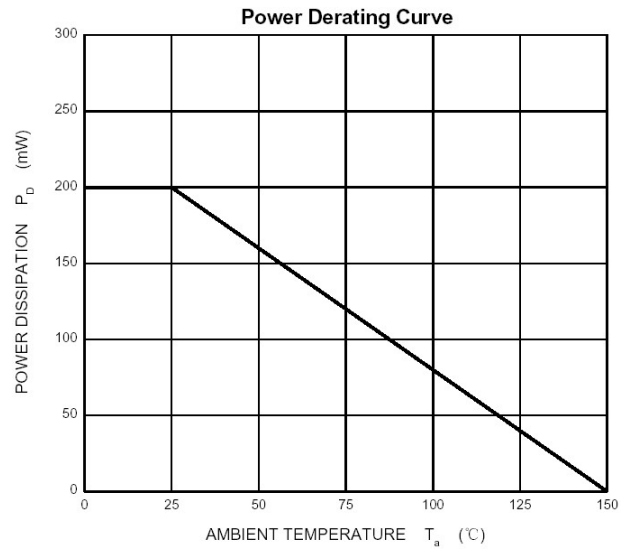
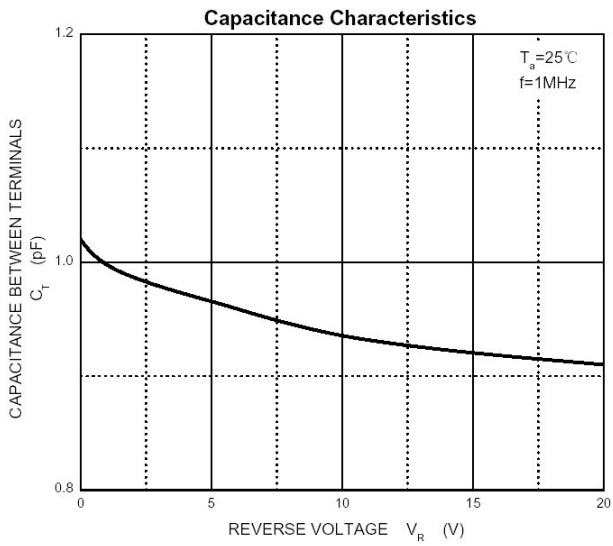
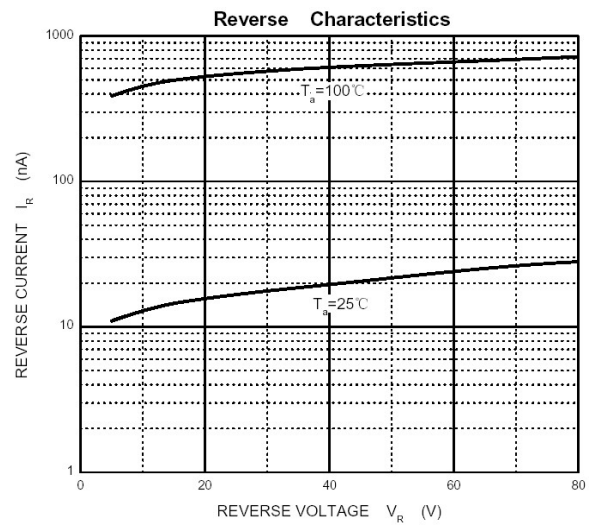
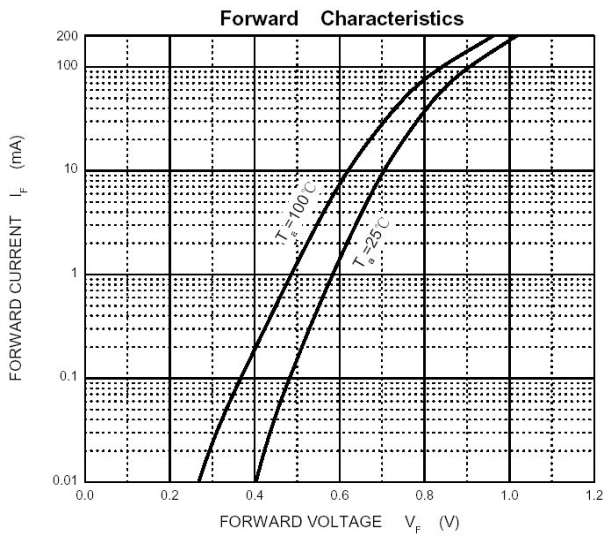
| 参数 Parameters                                              | 符号 Symbol        | 数值 Value | 单位 Unit |
|------------------------------------------------------------|------------------|----------|---------|
| 反向电压 Reverse Voltage                                       | V <sub>R</sub>   | 75       | V       |
| 反向峰值电压 Peak Reverse Voltage                                | V <sub>RM</sub>  | 100      | V       |
| 功率消耗 Power Dissipation                                     | P <sub>d</sub>   | 200      | mW      |
| 工作结温 Operating junction temperature                        | T <sub>j</sub>   | 125      | °C      |
| 存储温度 Storage temperature range                             | T <sub>s</sub>   | -55-+150 | °C      |
| 热阻 Thermal Resistance from Junction to Ambient             | R <sub>θJA</sub> | 625      | °C/W    |
| 反向工作电压 Working Inverse Voltage                             | W <sub>IV</sub>  | 75       | V       |
| 平均整流电流 Average Rectified Current                           | I <sub>O</sub>   | 150      | mA      |
| 正向(不重复)电流 Non-repetitive Peak Forward Current              | I <sub>FM</sub>  | 300      | mA      |
| 正向(不重复)浪涌电流 Peak Forward Surge Current<br>@tp=1us; TA=25°C | I <sub>FSM</sub> | 2.0      | A       |

Valid provided that electrodes are kept at ambient temperature.

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

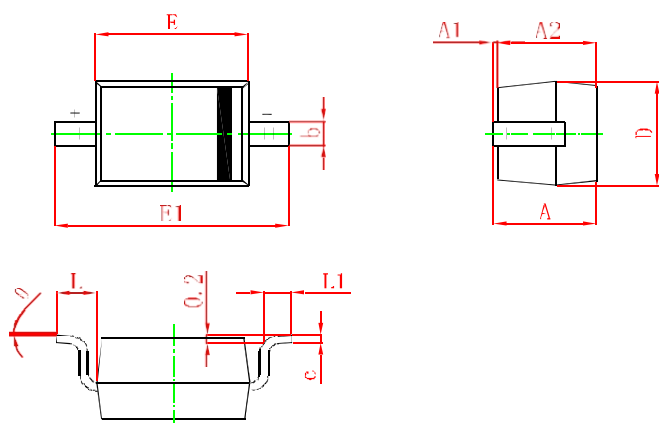
| 符号<br>Symbols | 参数<br>Parameter         | 测试条件<br>Test Condition | 界限 Limits |       | 单位<br>Unit |
|---------------|-------------------------|------------------------|-----------|-------|------------|
|               |                         |                        | Min       | Max   |            |
| BV            | 反向击穿电压                  | IR=100uA               | 100       |       | V          |
|               | Breakdown Voltage       | IR=5uA                 | 75        |       |            |
| IR            | 反向漏电流                   | VR=20V                 | ---       | 25    | nA         |
|               | Reverse Leakage Current | VR=75                  | ---       | 1     | uA         |
| VF            | 正向电压                    | IF=1.0mA               | ---       | 0.715 | V          |
|               | Forward Voltage         | IF=10mA                | ---       | 0.855 |            |
|               |                         | IF=50mA                | ---       | 1.00  |            |
|               |                         | IF=150mA               | ---       | 1.25  |            |
| TRR           | 反向恢复时间                  | IF= IR=10mA            | ---       | 4     | nS         |
|               | Reverse Recovery Time   | RL=100Ω                |           |       |            |
|               |                         | IRR=0.1 X IR           |           |       |            |
| CT            | 结电容                     | VR=0V, f=1MHZ          | ---       | 2     | pF         |
|               | Capacitance             |                        |           |       |            |

典型电特性 Typical Characteristics

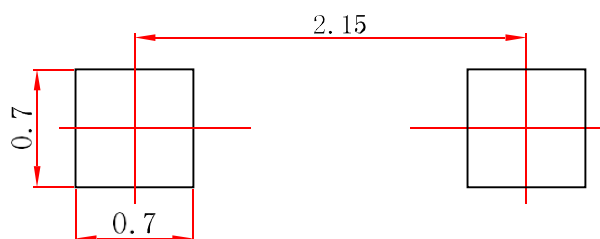


**SOD-323 PACKAGE OUTLINE**

Plastic surface mounted package

**SOD-323**

| Symbol    | Min.(mm) | Max.(mm) |
|-----------|----------|----------|
| <b>A</b>  |          | 1.000    |
| <b>A1</b> | 0.000    | 0.100    |
| <b>A2</b> | 0.800    | 0.900    |
| <b>b</b>  | 0.250    | 0.350    |
| <b>c</b>  | 0.080    | 0.150    |
| <b>D</b>  | 1.200    | 1.400    |
| <b>E</b>  | 1.600    | 1.800    |
| <b>E1</b> | 2.500    | 2.700    |
| <b>L</b>  | 0.475REF |          |
| <b>L1</b> | 0.250    | 0.400    |
| <b>θ</b>  | 0°       | 8°       |

**SOD-323 Suggested Pad Layout****Note:**

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