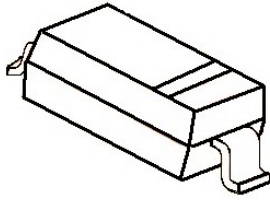


SOD-323

200mW SOD-323 Fast Switching Diode



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℃ 除非另有规定)

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

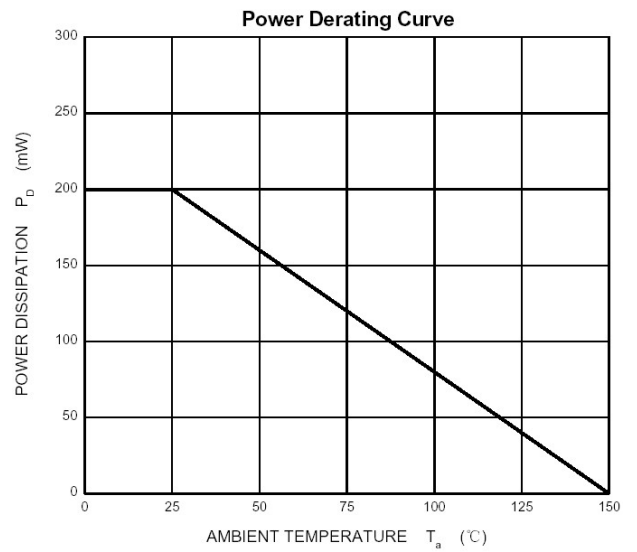
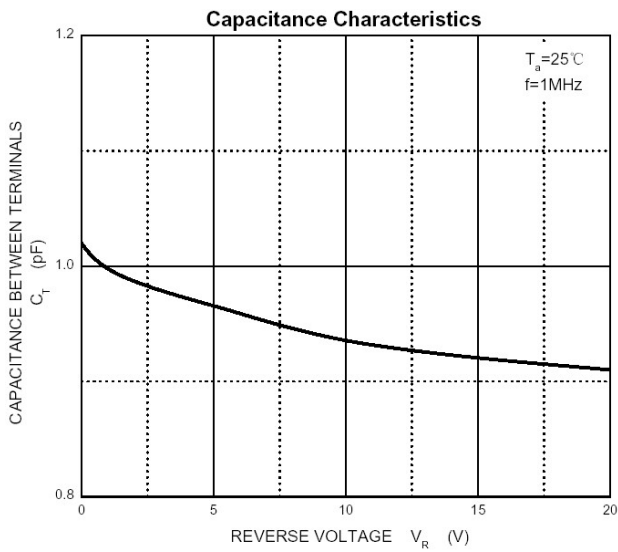
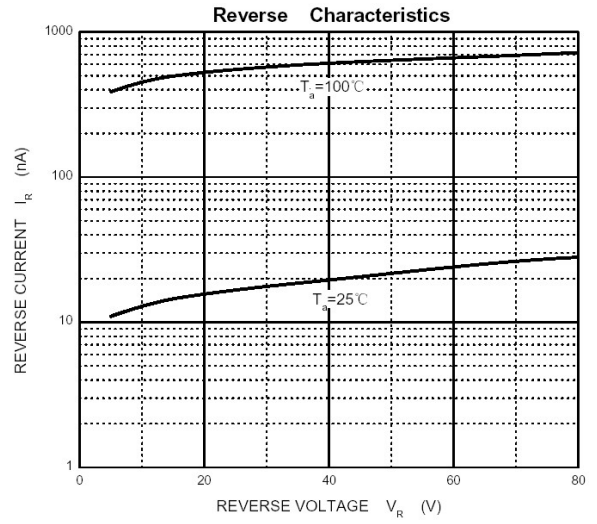
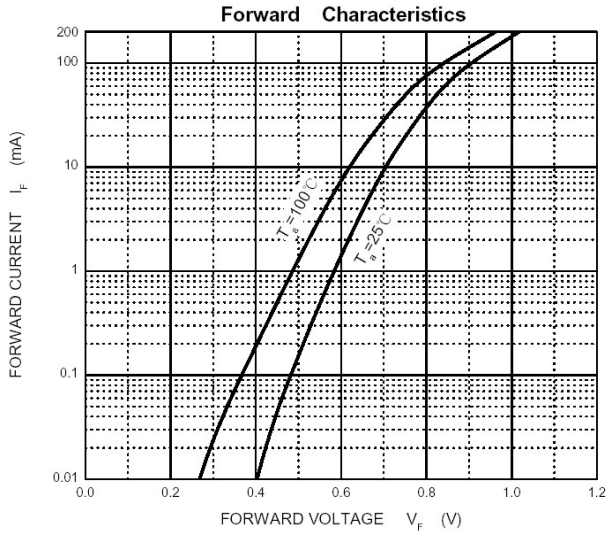
| 参数 Parameters | 符号 Symbol | 数值 Value | 单位 Unit |
|--|------------------|----------|---------|
| 反向电压 Reverse Voltage | V _R | 75 | V |
| 反向峰值电压 Peak Reverse Voltage | V _{RM} | 100 | V |
| 功率消耗 Power Dissipation | P _d | 200 | mW |
| 工作结温 Operating junction temperature | T _j | 125 | ℃ |
| 存储温度 Storage temperature range | T _s | -55-+150 | ℃ |
| 热阻 Thermal Resistance from Junction to Ambient | R _{θJA} | 625 | ℃/W |
| 反向工作电压 Working Inverse Voltage | W _{IV} | 75 | V |
| 平均整流电流 Average Rectified Current | I _O | 150 | mA |
| 正向(不重复)电流 Non-repetitive Peak Forward Current | I _{FM} | 300 | mA |
| 正向(不重复)浪涌电流 Peak Forward Surge Current | I _{FSM} | 2.0 | A |

@tp=1us; TA=25℃

Valid provided that electrodes are kept at ambient temperature.

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

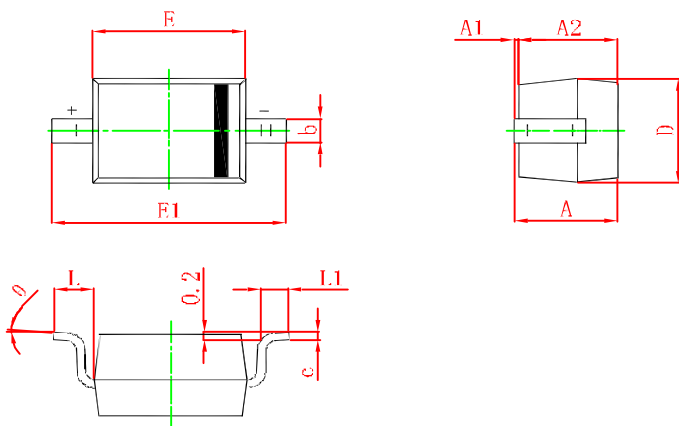
| 符号 Symbols | 参数 Parameter | 测试条件 Test Condition | 界限 Limits | | 单位 Unit |
|------------|-------------------------|---------------------|-----------|-------|---------|
| | | | Min | Max | |
| BV | 反向击穿电压 | IR=100uA | 100 | | V |
| | Breakdown Voltage | IR=5uA | 75 | | |
| IR | 反向漏电流 | VR=20V | --- | 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 | | | | |



SOD-323 PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



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