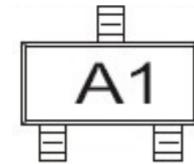
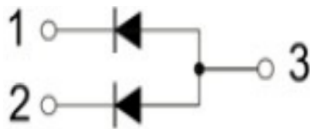
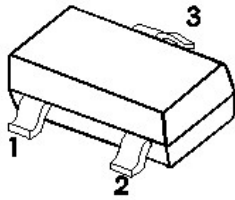


**SOT-23**

**MARKING: A1**
**特征 Features**

- 开关速度小于 4nS; Fast Switching Device (TRR <4nS)
- 最大功率耗散 225mW; Power Dissipation of 225mW
- 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: SOT-23 封装 SOT-23 Small Outline Plastic Package
- 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.)

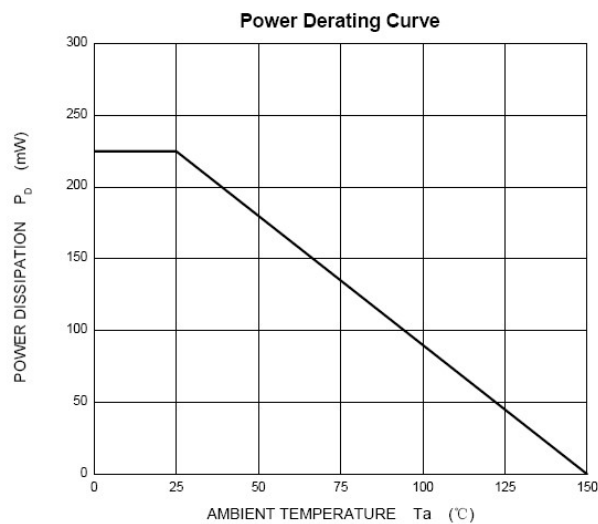
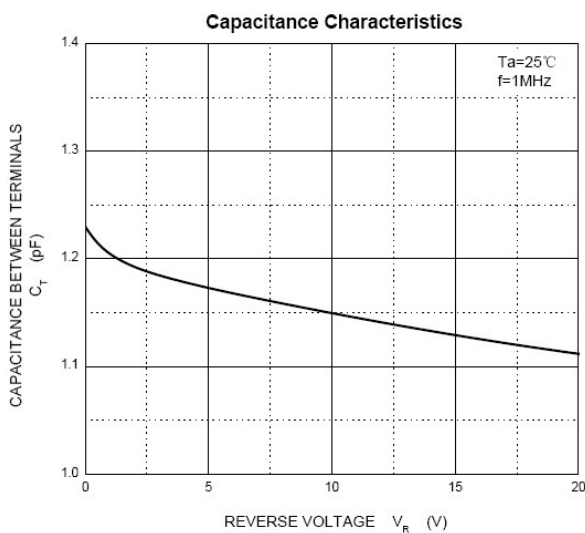
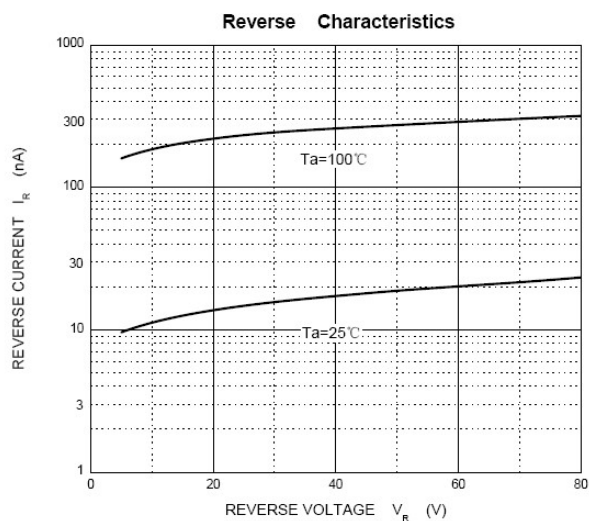
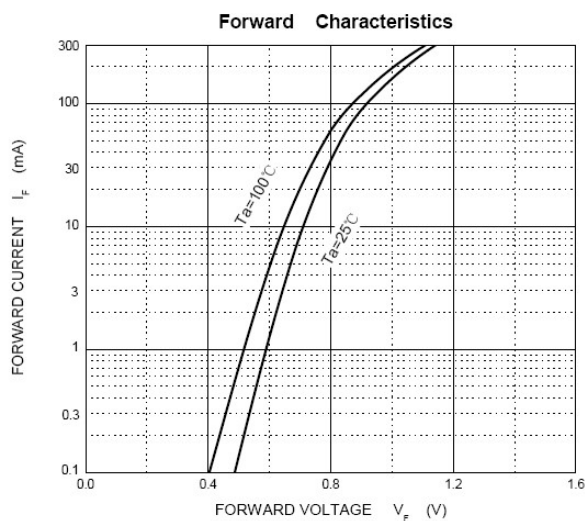
| 参数 Parameters                                             | 符号 Symbol | 数值 Value | 单位 Unit |
|-----------------------------------------------------------|-----------|----------|---------|
| 反向电压 Reverse Voltage                                      | VR        | 100      | V       |
| 功率消耗 Power Dissipation                                    | Pd        | 225      | mW      |
| 工作结温 Operating junction temperature                       | Tj        | 150      | ℃       |
| 存储温度 Storage temperature range                            | Ts        | -65-+150 | ℃       |
| 平均整流电流 Average Rectified Current                          | IO        | 200      | mA      |
| 正向(不重复)电流 Non-repetitive Peak Forward Current             | IFM       | 400      | mA      |
| 正向(不重复)浪涌电流 Peak Forward Surge Current<br>@tp=1ms; TA=25℃ | IFSM      | 1.0      | A       |
| 典型热阻<br>Typical thermal resistance                        | RθJA      | 500      | ℃/W     |

Valid provided that electrodes are kept at ambient temperature.

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

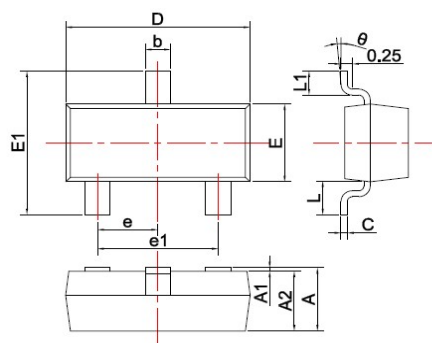
| 符号 Symbols | 参数 Parameter                     | 测试条件 Test Condition               | 界限 Limits |       | 单位 Unit |
|------------|----------------------------------|-----------------------------------|-----------|-------|---------|
|            |                                  |                                   | Min       | Max   |         |
| VRB        | 反向击穿电压<br>Reverse Voltage        | IB=100uA                          | 100       | ---   | V       |
| IR         | 反向漏电流<br>Reverse Leakage Current | VR=100V                           | ---       | 1.0   | uA      |
| VF         | 正向电压<br>Forward Voltage          | IF=1mA                            | ---       | 0.715 | V       |
|            |                                  | IF=10mA                           | ---       | 0.855 |         |
|            |                                  | IF=50mA                           | ---       | 1.00  |         |
|            |                                  | IF=150mA                          | ---       | 1.25  |         |
| TRR        | 反向恢复时间<br>Reverse Recovery Time  | IF= IR=10mA,RL=100Ω<br>IRR=0.1xIR | ---       | 4     | nS      |
| CT         | 结电容<br>Capacitance               | VR=0V, f=1MHZ                     | ---       | 1.5   | pF      |

## Typical Characteristics



## SOT-23 PACKAGE OUTLINE

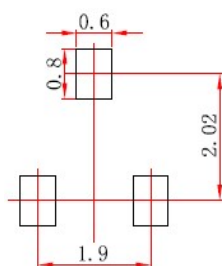
Plastic surface mounted package



| SYMBOL | DIMENSIONS |       |
|--------|------------|-------|
|        | MIN        | MAX   |
| A      | 0.900      | 1.150 |
| A1     | 0.000      | 0.100 |
| A2     | 0.900      | 1.050 |
| b      | 0.300      | 0.500 |
| c      | 0.080      | 0.150 |
| D      | 2.800      | 3.000 |
| E      | 1.200      | 1.400 |
| E1     | 2.250      | 2.550 |
| e      | 0.950TYP   |       |
| e1     | 1.800      | 2.000 |
| L      | 0.550REF   |       |
| L1     | 0.300      | 0.500 |
| theta  | 0°         | 8°    |

Unit: mm

焊盘设计参考 Precautions: PCB Design (Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs)



Note:

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

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