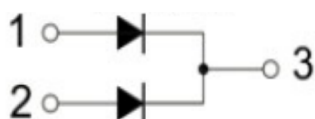
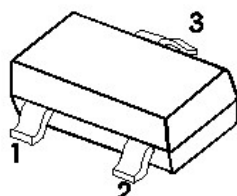


**SOT-23**

**MARKING: A4**
**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.)

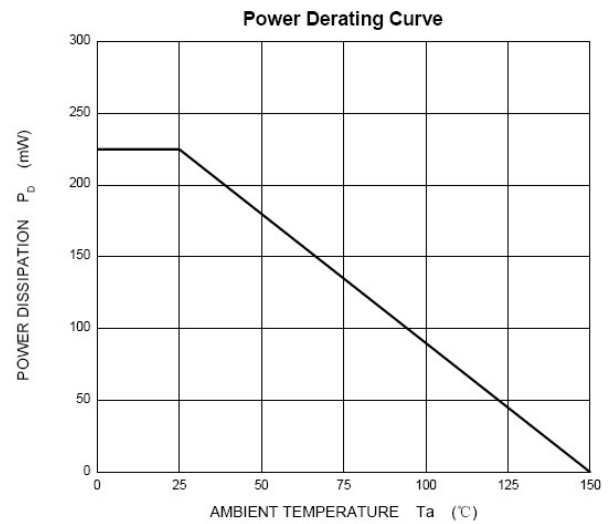
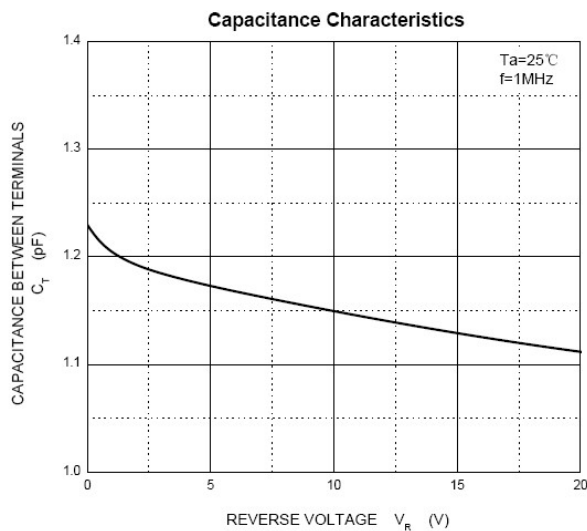
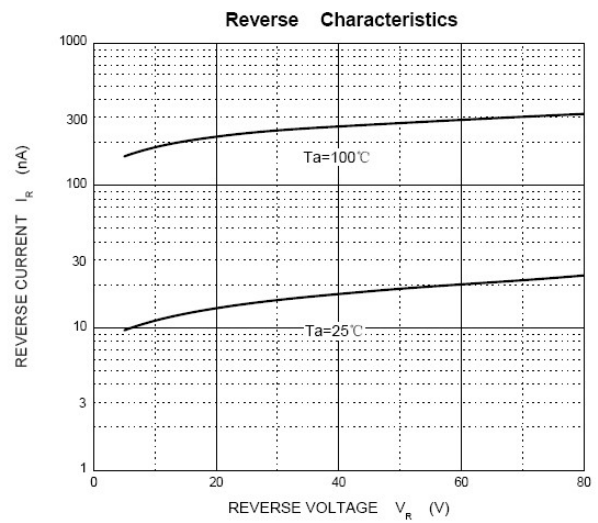
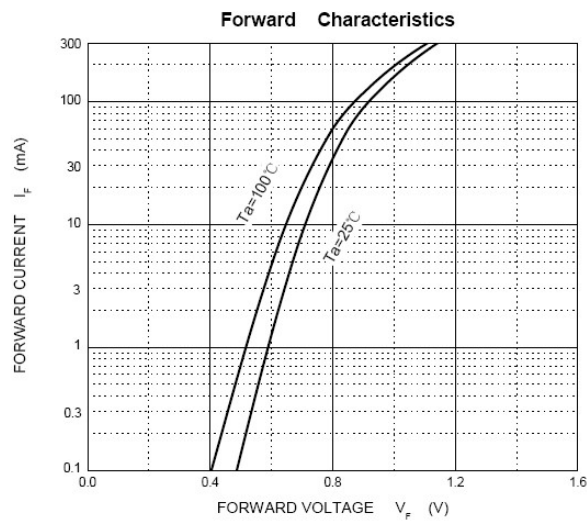
| 参数 Parameters                                             | 符号 Symbol | 数值 Value | 单位 Unit |
|-----------------------------------------------------------|-----------|----------|---------|
| 反向电压 Reverse Voltage                                      | VR        | 100      | V       |
| 功率消耗 Power Dissipation                                    | 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).

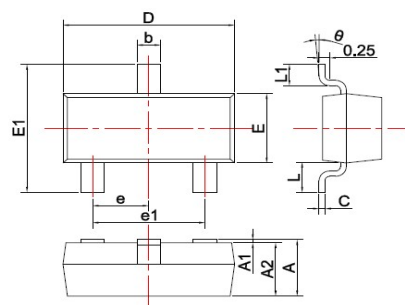
| 符号 Symbols | 参数 Parameter                     | 测试条件 Test Condition                | 界限 Limits |       | 单位 Unit |
|------------|----------------------------------|------------------------------------|-----------|-------|---------|
|            |                                  |                                    | 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

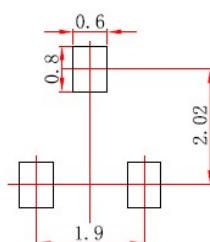
Plastic surface mounted package



| 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 |
| θ      | 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.

**NOTICE**

The information presented in this document is for reference only. Involving product optimization and productivity improvement, ChipNobo reserves the right to adjust product indicators and upgrade some technical parameters. ChipNobo is entitled to be exempted from liability for any delay or non-delivery of the information disclosure process that occurs.

本文件中提供的信息仅供参考。涉及产品优化和生产效率改善，ChipNobo 有权调整产品指标和部分技术参数的升级，所出现信息披露过程存在延后或者不能送达的情形，ChipNobo 有获免责权。

The product listed herein is designed to be used with residential and commercial equipment, and do not support sensitive items and specialized equipment in areas where sanctions do exist. ChipNobo Co., Ltd or anyone on its behalf, assumes no responsibility or liability for any damages resulting from improper use.

此处列出的产品旨在民用和商业设备上使用，不支持确有制裁地区的敏感项目和特殊设备，ChipNobo 有限公司或其代表，对因不当使用而造成的任何损害不承担任何责任。

For additional information, please visit our website <http://www.chipnobo.com>, or consult your nearest Chipnobo sales office for further assistance.

欲了解更多信息，请访问我们的网站 <http://www.chipnobo.com>，或咨询离您最近的 Chipnobo 销售办事处以获得进一步帮助。