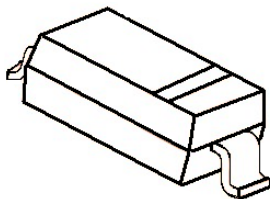


SOD-323



MARKING: BAV21WS: T3

特征 Features

开关速度小于 50nS; Fast Switching Device (TRR <50nS)  
 最大功率耗散 250mW; Power Dissipation of 250mW  
 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  
 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.)

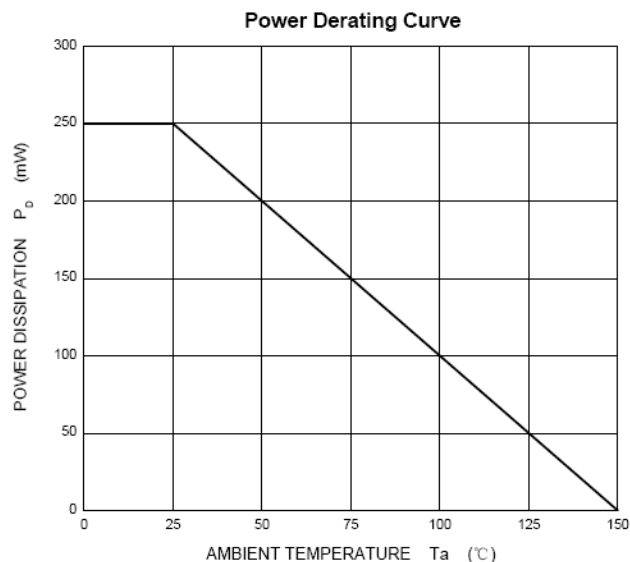
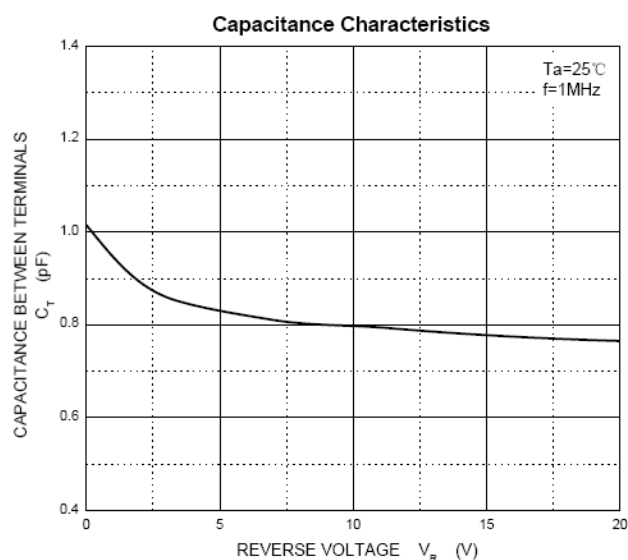
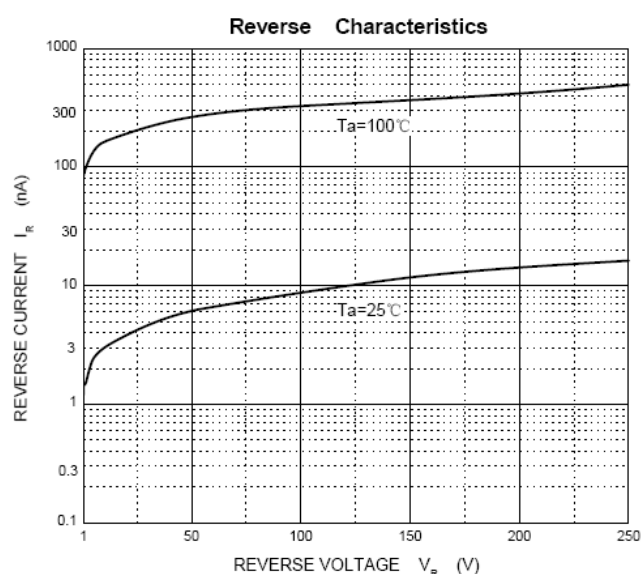
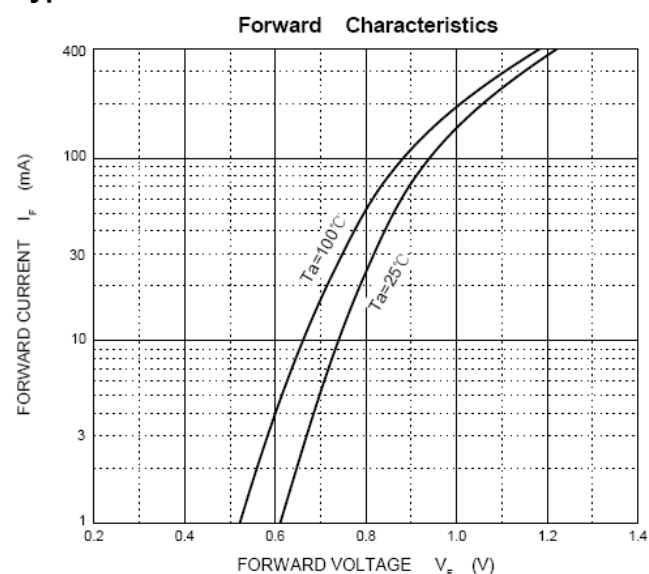
| 参数 Parameters                              | 符号 Symbol | 数值 Value | 单位 Unit |
|--------------------------------------------|-----------|----------|---------|
|                                            |           | BAV21WS  |         |
| Reverse Voltage                            | VR        | 250      | V       |
| Peak Reverse Voltage                       | VRM       | 250      | V       |
| Power Dissipation                          | Pd        | 250      | mW      |
| Operating junction temperature             | Tj        | 150      | ℃       |
| Storage temperature range                  | Ts        | -65-+150 | ℃       |
| Thermal Resistance Junction to Ambient Air | RθJA      | 500      | ℃/W     |
| Working Inverse Voltage                    | WIV       | 75       | V       |
| Average Rectified Current                  | IO        | 200      | mA      |
| Non-repetitive Peak Forward Current        | IFM       | 400      | mA      |
| Peak Forward Surge Current@tp=1ms; TA=25℃  | IFSM      | 1.7      | A       |

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 BAV21WS    | 250       | ---  | V       |
| IR         | 反向漏电流<br>Reverse Leakage Current | VR=200V BAV21WS     | ---       | 0.1  | uA      |
|            |                                  |                     |           |      |         |
| VF         | 正向电压<br>Forward Voltage          | IF=100mA            | ---       | 1.00 | V       |
|            |                                  | IF=200mA            | ---       | 1.25 |         |
| TRR        | 反向恢复时间<br>Reverse Recovery Time  | IF= 30mA, IR=30mA   | ---       | 50   | nS      |
|            |                                  | RL=100Ω             |           |      |         |
|            |                                  | IRR=3mA             |           |      |         |
| C          | 结电容<br>Capacitance               | VR=0V, f=1MHZ       | ---       | 5    | pF      |
|            |                                  |                     |           |      |         |

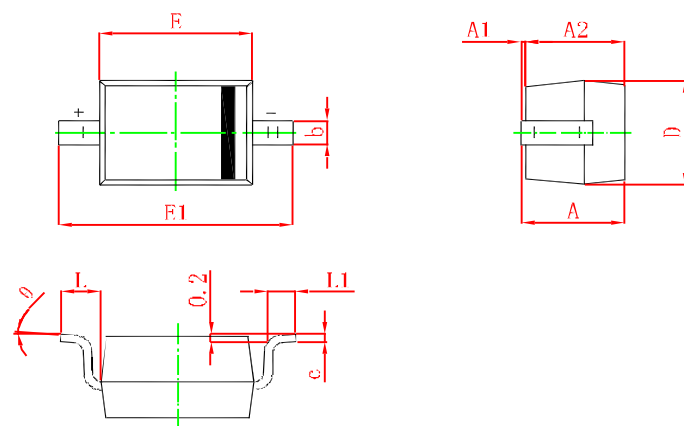
## Typical Characteristics



## 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°       |

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