

SOD-523 Plastic-Encapsulate Schottky Barrier Diode



特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop

机械数据 Mechanical Data

MARKING: B



- 封装: SOD-523 封装 SOD-523 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 | Limit | 单位 Unit |
|---|--------------|----------|------------|
| 峰值反向电压 Peak reverse voltage | VRM | 30 | V |
| 直流反向电压 DC reverse voltage | VR | 30 | V |
| 整流电流 Mean rectifying current | Io | 0.2 | A |
| 峰值正向浪涌电流 Peak forward surge current 8.3 ms single half sine-wave | IFSM | 1.0 | A |
| 典型热阻 Typical thermal resistance | RθJA | 667 | °C/W |
| 功率消耗 Power Dissipation | PD | 150 | mW |
| 存储温度 Storage temperature range | TSTG | -50-+150 | °C |

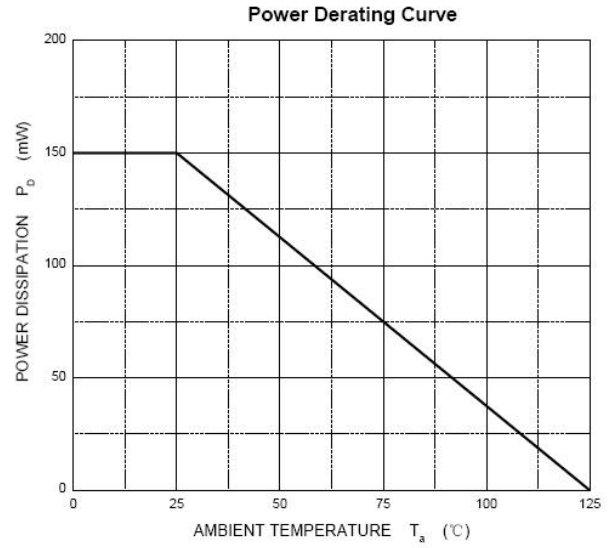
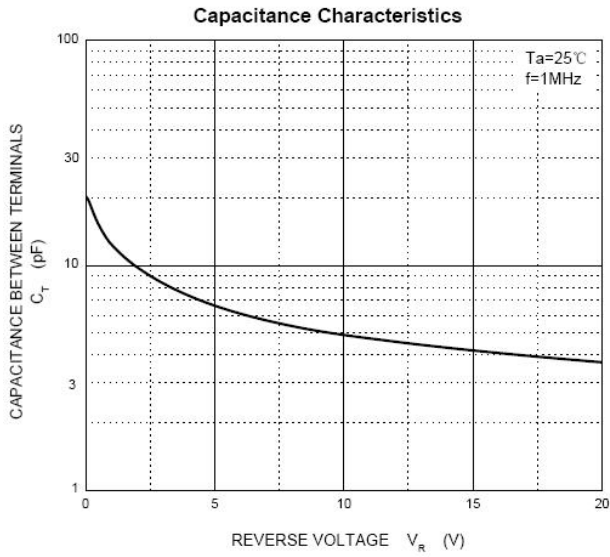
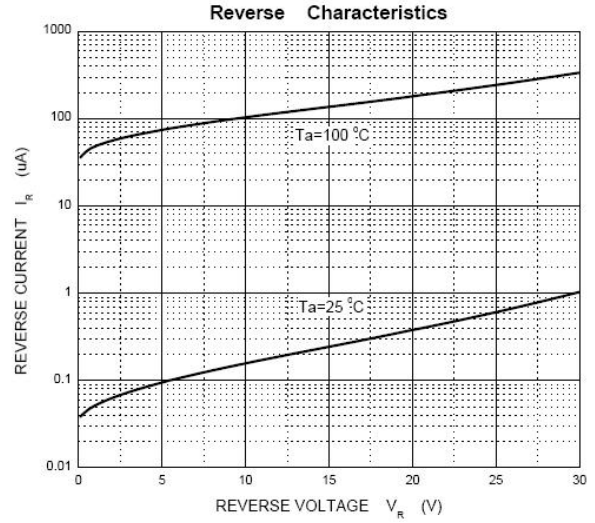
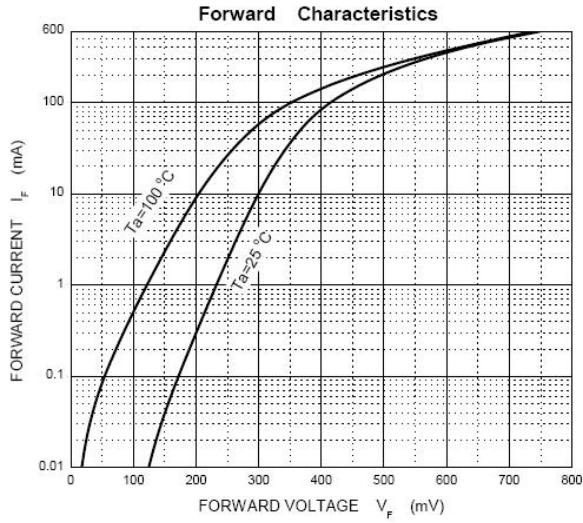
电特性 (TA = 25°C 除非另有规定)

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

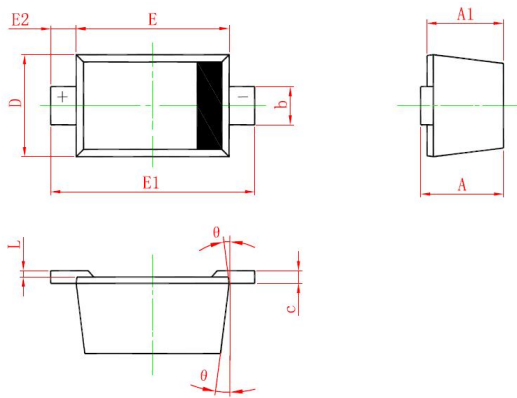
| 参数 Parameters | 符号 Symbol | 测试条件 Test conditions | Min | Typ | Max | 单位 Unit |
|---|--------------|-------------------------|-----|-----|------|------------|
| 最大正向电压 Maximum forward voltage | VF | IF = 200mA | | | 0.60 | V |
| 最大反向电压 Maximum reverse breakdown voltage | VR | IR=1mA | 30 | | | V |
| 最大反向电流 Maximum reverse current | IR | VR=10V | | | 1 | uA |

RB520S-30

特性曲线 Characteristic Curves



SOD-523 PACKAGE OUTLINE Plastic surface mounted package



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|----------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 0.510 | 0.770 | 0.020 | 0.031 |
| A1 | 0.500 | 0.700 | 0.020 | 0.028 |
| b | 0.250 | 0.350 | 0.010 | 0.014 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 0.750 | 0.850 | 0.030 | 0.033 |
| E | 1.100 | 1.300 | 0.043 | 0.051 |
| E1 | 1.500 | 1.700 | 0.059 | 0.067 |
| E2 | 0.200 REF | | 0.008 REF | |
| L | 0.010 | 0.070 | 0.001 | 0.003 |
| θ | 7° REF | | 7° REF | |