



安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

RB521S-40

SOD-523 Schottky Barrier Diode 肖特基势垒二极管

Internal Configuration & Device Marking 内部结构与产品打标

| | |
|---------|-----------|
| Type 型号 | RB521S-40 |
| Pin 管脚 | |
| Mark 打标 | |

Absolute Maximum Ratings 最大额定值

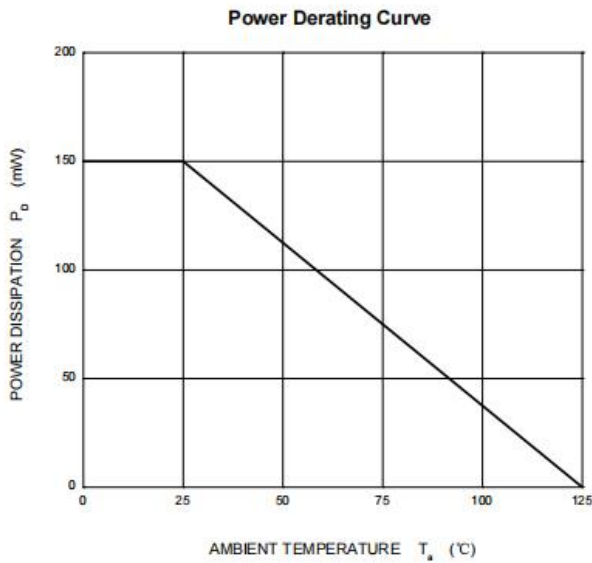
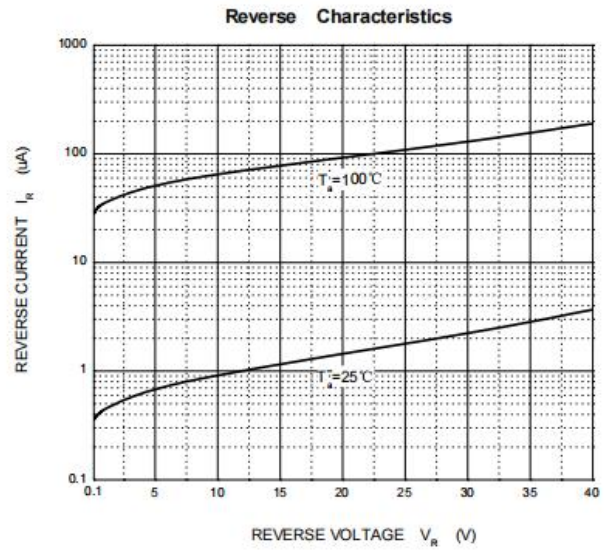
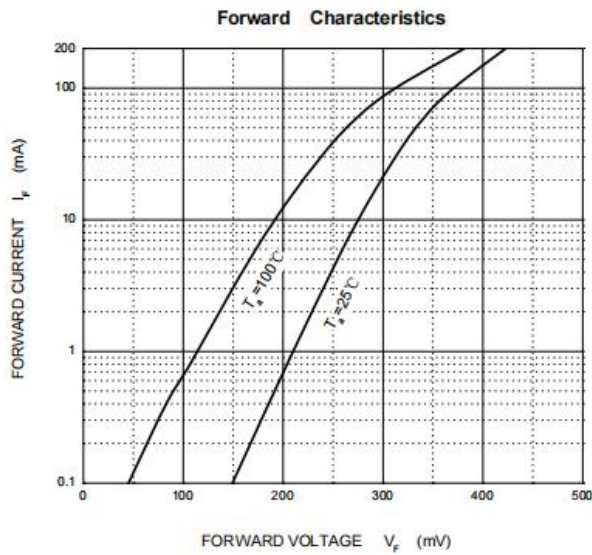
| Characteristic 特性参数 | Symbol 符号 | Rat 额定值 | Unit 单位 |
|--|-----------------------|----------------------|--------------|
| Peak Reverse Voltage 反向峰值电压 | V_{RM} | 45 | V |
| Repetitive Reverse Voltage 重复反向电压 | V_{RRM} | 40 | V |
| Reverse Work Voltage 反向工作电压 | V_{RWM} | 40 | V |
| RMS Reverse Voltage 反向电压均方根值 | $V_R(RMS)$ | 28 | V |
| Forward Work Current 正向工作电流 | I_o | 200 | mA |
| Peak Forward Surge Current 正向峰值浪涌电流 | I_{FSM} | 1000 | mA |
| Power dissipation 耗散功率 | $P_D(T_a=25^\circ C)$ | 150 | mW |
| Thermal Resistance J-A 结到环境热阻 | $R_{\theta JA}$ | 668 | $^\circ C/W$ |
| Junction and Storage Temperature 结温和储藏温度 | T_J, T_{stg} | -55to+125 $^\circ C$ | |

Electrical Characteristics 电特性

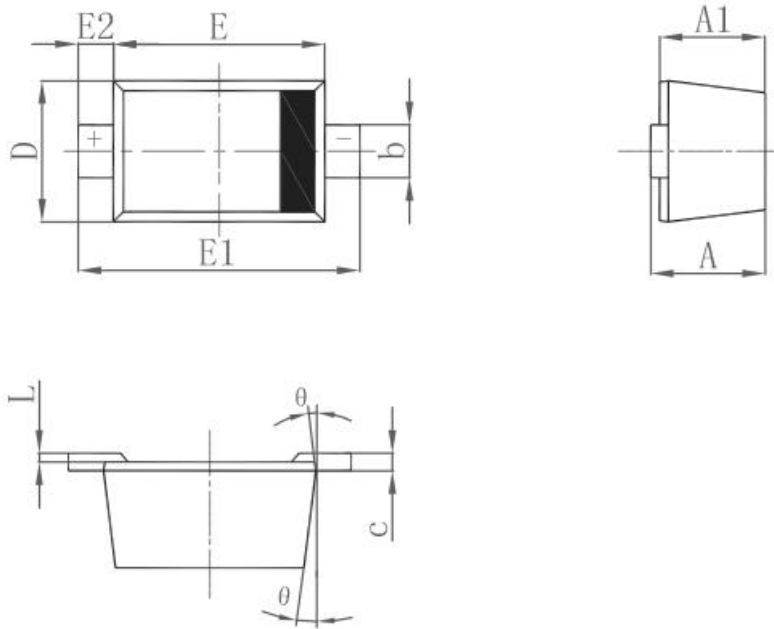
($T_A=25^\circ C$ unless otherwise noted 如无特殊说明, 温度为 $25^\circ C$)

| Characteristic 特性参数 | Symbol 符号 | Min 最小值 | Max 最大值 | Unit 单位 |
|---|------------|----------------------|---------------------|---------|
| Reverse Breakdown Voltage 反向击穿电压($I_R=100\mu A$) | $V_{(BR)}$ | 40 | — | V |
| Reverse Leakage Current($V_R=10V$) 反向漏电流($V_R=40V$) | I_R | — | 20 90 | μA |
| Forward Voltage($I_F=10mA$) 正向电压($I_F=100mA$) ($I_F=200mA$) | V_F | 0.16 0.31 0.41 | 0.3 0.45 0.54 | V |

■ Typical Characteristic Curve 典型特性曲线



■Dimension 外形封装尺寸



| 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 | |

单击下面可查看定价，库存，交付和生命周期等信息

[>>FOSAN\(富信\)](#)