



安徽富信半导体科技有限公司

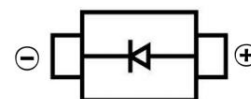
ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

DSR1A-DSR1M

SOD-123FL General Purpose Rectifier Diode 通用整流二极管

■Features 特点

- Low forward voltage drop 低正向压降
- Low reverse leakage current 低反向漏电流
- High surge current capability 高浪涌电流能力
- Surface mount device 表面贴装器件
- Case 封装:SOD-123FL



■Maximum Rating 最大额定值

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

| Characteristic 特性参数 | Symbol 符号 | DSR 1A | DSR 1B | DSR 1D | DSR 1G | DSR 1J | DSR 1K | DSR 1M | Unit 单位 |
|---|-----------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------------|
| Marking 印字 | | S1A | S1B | S1D | S1G | S1J | S1K | S1M | |
| Peak Reverse Voltage 反向峰值电压 | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| DC Reverse Voltage 直流反向电压 | V_R | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage 反向电压均方根值 | $V_{R(RMS)}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Forward Rectified Current 正向整流电流 | I_F | 1 | | | | | | | A |
| Peak Surge Current 峰值浪涌电流 | I_{FSM} | 30 | | | | | | | A |
| Thermal Resistance J-A 结到环境热阻 | $R_{\theta JA}$ | 80 | | | | | | | $^{\circ}\text{C}/\text{W}$ |
| Junction and Storage Temperature 结温和储藏温度 | T_J, T_{stg} | 150 $^{\circ}\text{C}$, -55to+150 $^{\circ}\text{C}$ | | | | | | | |

■Electrical Characteristics 电特性

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

| Characteristic 特性参数 | Symbol 符号 | Min 最小值 | Typ 典型值 | Max 最大值 | Unit 单位 | Test Condition 测试条件 |
|--|--------------|------------|------------|------------|---------------|--------------------------------|
| Forward Voltage 正向电压 | V_F | | 1.0 | 1.1 | V | $I_F=1\text{A}$ |
| Reverse Current($T_A=25^{\circ}\text{C}/$) 反向电流($T_A=100^{\circ}\text{C}/$) | I_R | | | 5 50 | μA | $V_R=V_{RRM}$ |
| Diode Capacitance 二极管电容 | C_D | | 15 | | pF | $V_R=4\text{V}, f=1\text{MHz}$ |



■ Typical Characteristic Curve 典型特性曲线

FIG.1-TYPICAL FORWARD CHARACTERISTICS

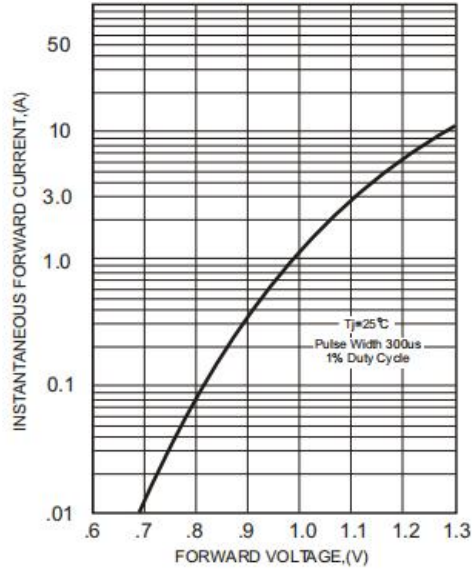


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

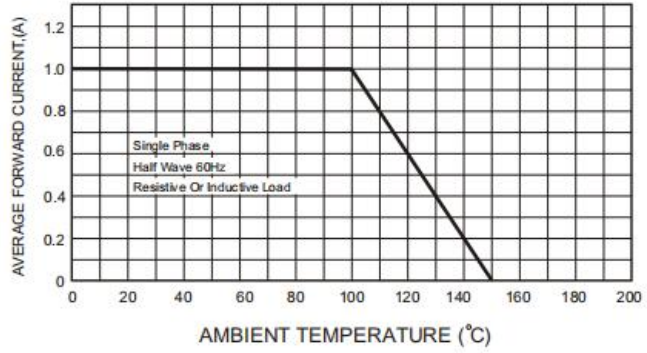


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

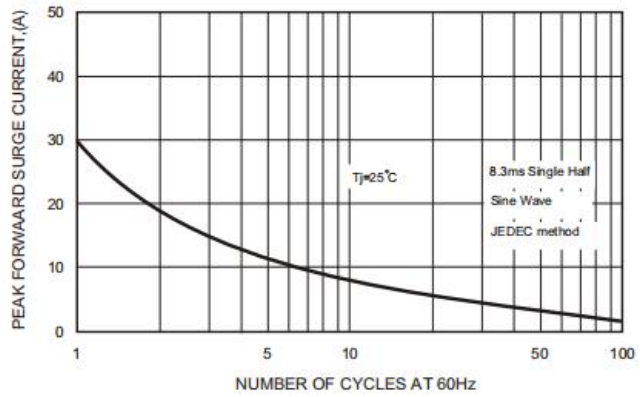


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

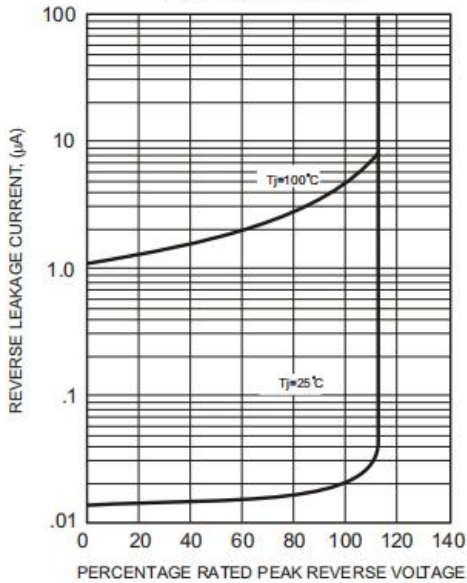
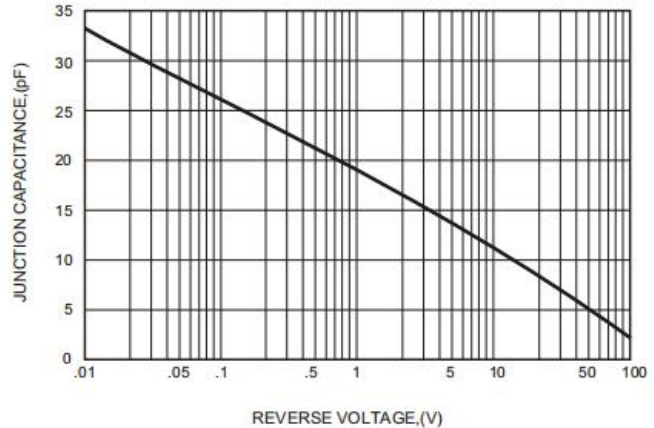
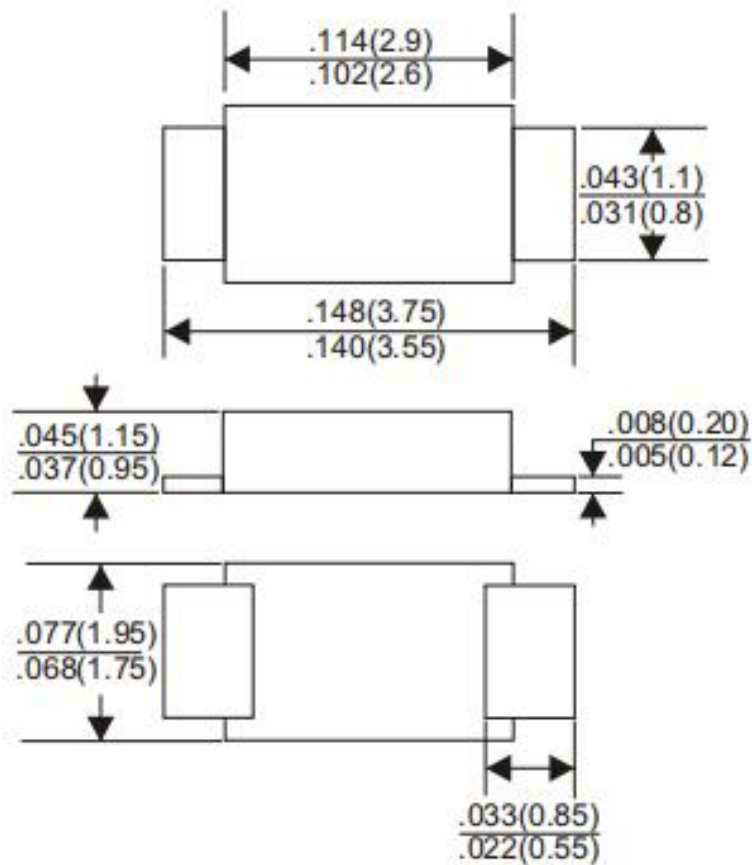


FIG.5-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸



Dimensions in inches and (millimeters)