

## 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

**HF** **RoHS**



### ■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  $25^{\circ}\text{C}$ )

| Characteristic<br>特性参数                      | Symbol<br>符号    | S1AW<br>-6AF                                                        | S1BW<br>-6AF | S1DW<br>-6AF | S1GW<br>-6AF | S1JW<br>-6AF | S1KW<br>-6AF | S1MW<br>-6AF | Unit<br>单位                  |
|---------------------------------------------|-----------------|---------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------------|
| Marking<br>印字                               |                 | S1A                                                                 | S1B          | S1D          | S1G          | S1J          | S1K          | S1M          |                             |
| Peak Reverse Voltage<br>反向峰值电压              | $V_{RRM}$       | 50                                                                  | 100          | 200          | 400          | 600          | 800          | 1000         | V                           |
| DC Reverse Voltage<br>直流反向电压                | $V_R$           | 50                                                                  | 100          | 200          | 400          | 600          | 800          | 1000         | V                           |
| RMS Reverse Voltage<br>反向电压均方根值             | $V_{R(RMS)}$    | 35                                                                  | 70           | 140          | 280          | 420          | 560          | 700          | V                           |
| Forward Rectified Current<br>正向整流电流         | $I_F$           | 1                                                                   |              |              |              |              |              |              | A                           |
| Peak Surge Current<br>峰值浪涌电流                | $I_{FSM}$       | 35                                                                  |              |              |              |              |              |              | A                           |
| Thermal Resistance J-A<br>结到环境热阻            | $R_{\theta JA}$ | 80                                                                  |              |              |              |              |              |              | $^{\circ}\text{C}/\text{W}$ |
| Junction and Storage Temperature<br>结温和储藏温度 | $T_J, T_{stg}$  | $150^{\circ}\text{C}, -55^{\circ}\text{C to } +150^{\circ}\text{C}$ |              |              |              |              |              |              |                             |

### ■Electrical Characteristics 电特性

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

| Characteristic<br>特性参数                                                             | Symbol<br>符号 | Min<br>最小值 | Typ<br>典型值 | Max<br>最大值 | Unit<br>单位    | Test Condition<br>测试条件         |
|------------------------------------------------------------------------------------|--------------|------------|------------|------------|---------------|--------------------------------|
| Forward Voltage<br>正向电压                                                            | $V_F$        |            |            | 0.98       | V             | $I_F=1\text{A}$                |
| Reverse Current( $T_A=25^{\circ}\text{C}/$ )<br>反向电流( $T_A=100^{\circ}\text{C}/$ ) | $I_R$        |            |            | 5<br>50    | $\mu\text{A}$ | $V_R=V_{RRM}$                  |
| Diode Capacitance<br>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

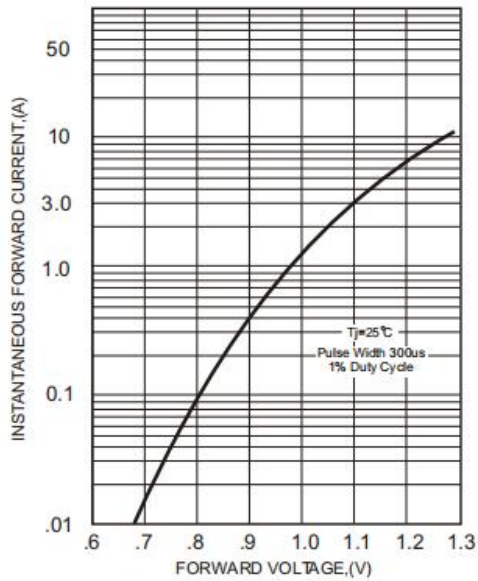


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

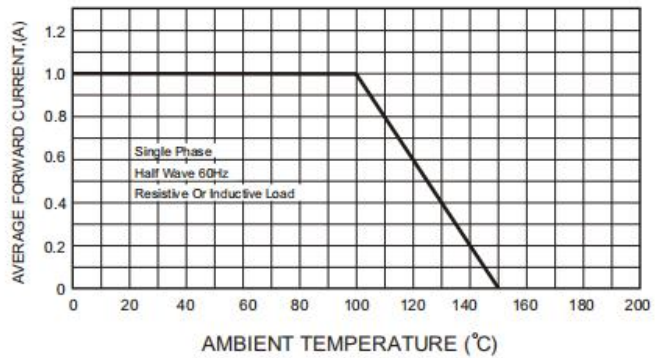


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

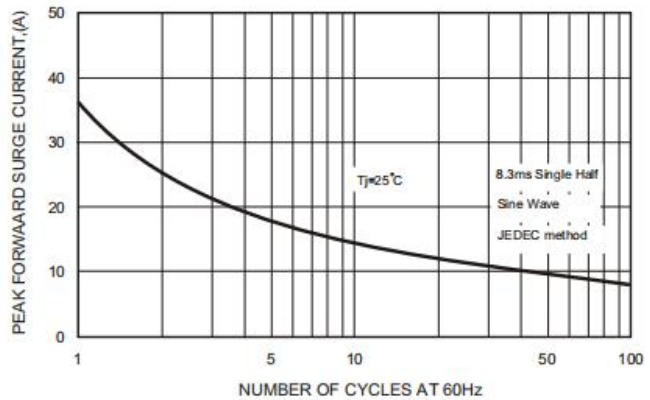


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

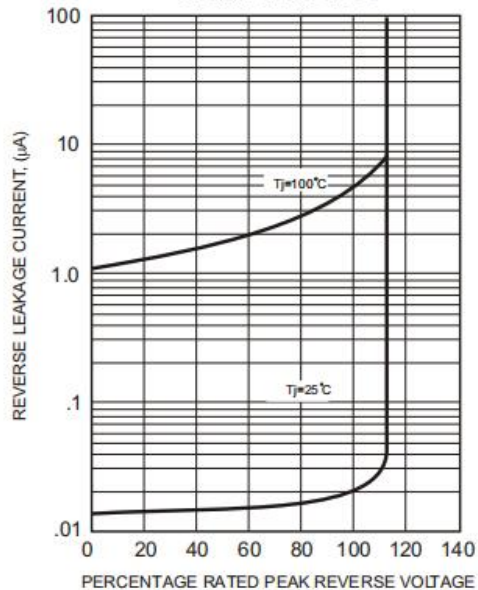
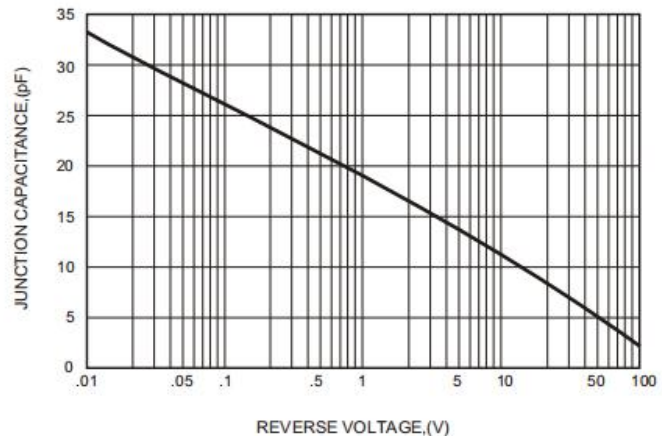
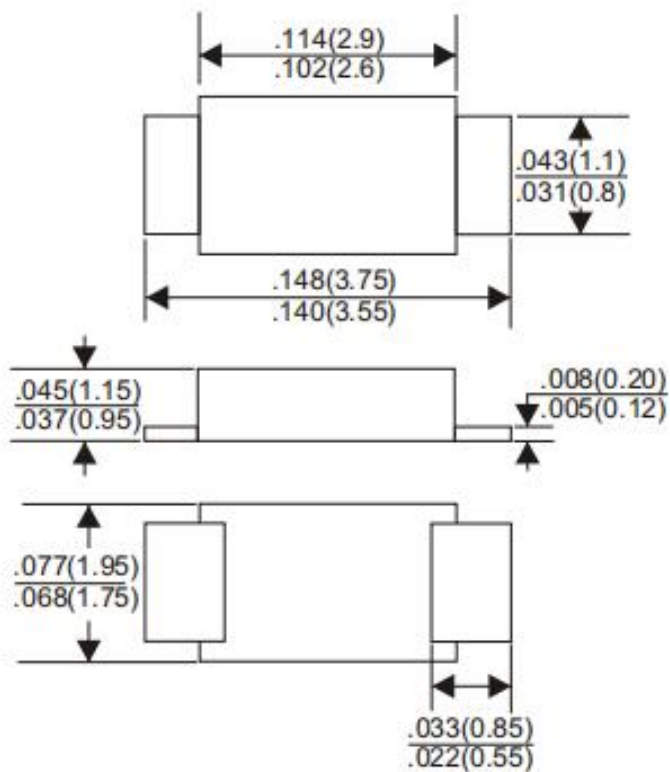


FIG.5-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸



Dimensions in inches and (millimeters)