

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	S2AW	S2BW	S2DW	S2GW	S2JW	S2KW	S2MW	Unit 单位
Marking 印字		S2A	S2B	S2D	S2G	S2J	S2K	S2M	
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	2							A
Peak Surge Current 峰值浪涌电流	I_{FSM}	50							A
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	60							$^{\circ}\text{C}/\text{W}$
Junction Temperature 结温	T_J	150							$^{\circ}\text{C}$
Storage Temperature 储藏温度	T_{stg}	$-55\text{to}+150^{\circ}\text{C}$							

■Electrical Characteristics 电特性

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°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			1.1	V	$I_F=2\text{A}$
Reverse Current($T_A=25^{\circ}\text{C}/$) 反向电流($T_A=100^{\circ}\text{C}/$)	I_R			5 100	μA	$V_R=V_{RRM}$
Diode Capacitance 二极管电容	C_D		25		pF	$V_R=4\text{V}, f=1\text{MHz}$

■ Typical Characteristic Curve 典型特性曲线

FIG.1-TYPICAL FORWARD

CHARACTERISTICS

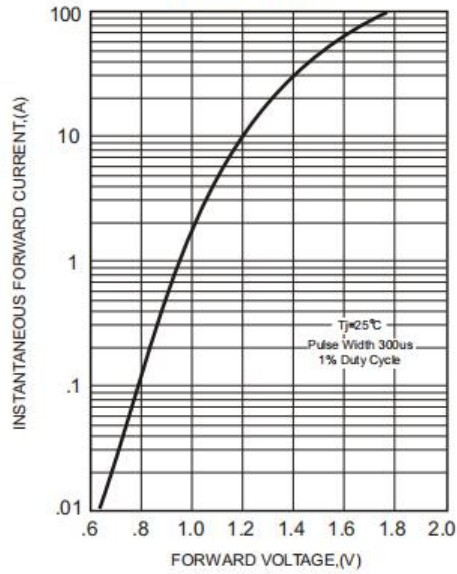


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

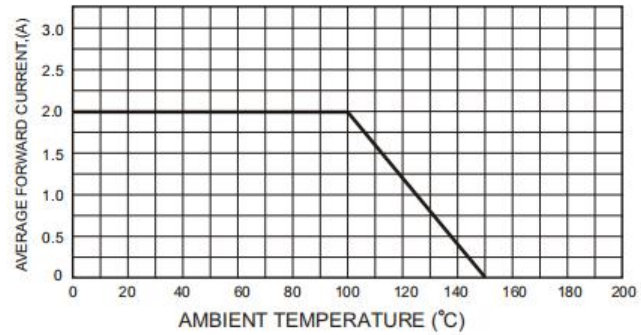


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

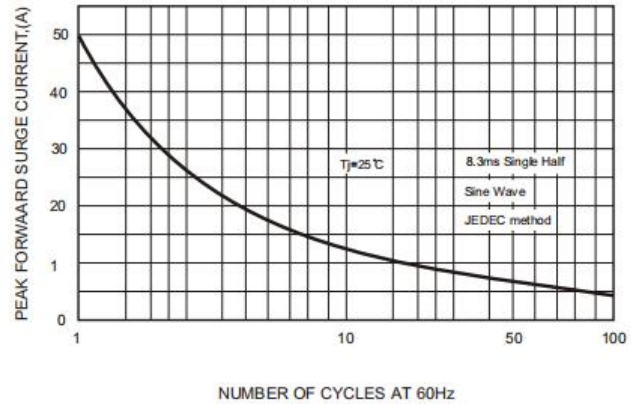


FIG.3 - TYPICAL REVERSE

CHARACTERISTICS

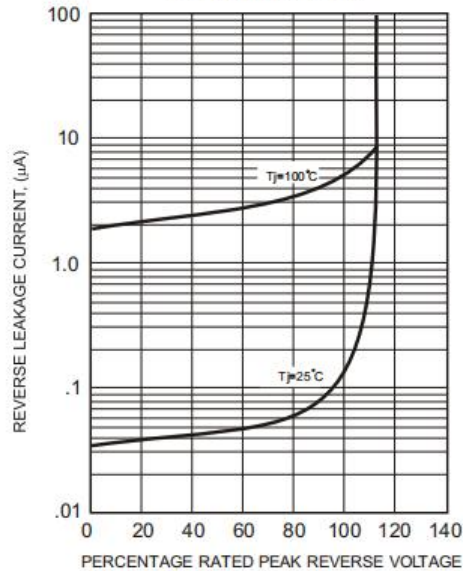
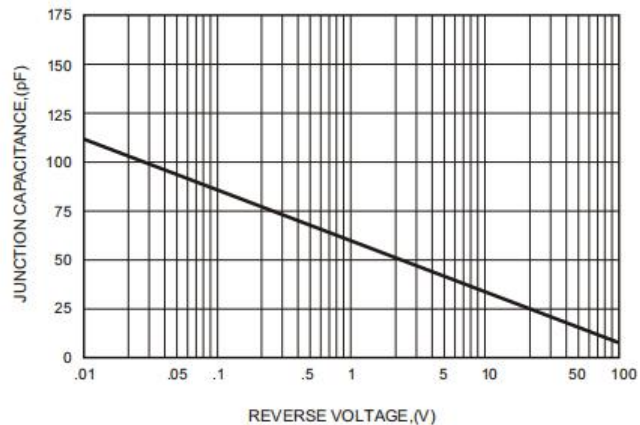
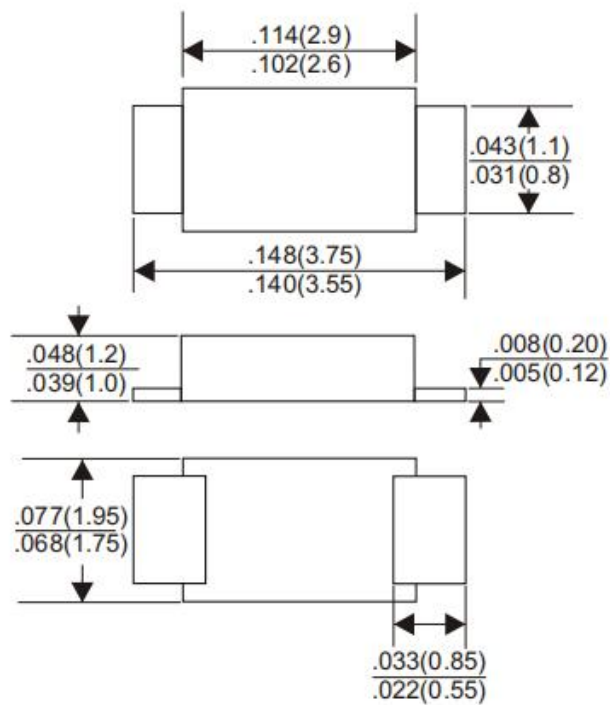


FIG.5-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸



Dimensions in inches and (millimeters)