

SOD-123FL Schottky Barrier Rectifier Diode 肖特基势垒整流二极管

■Features 特点

Low forward voltage drop 低正向压降

High current capability 高电流能力

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	K12	K13	K14	K15	K16	K17	K18	K19	K110	K115	K120	Unit 单位	
Peak Reverse Voltage 反向峰值电压	V _{RRM}	20	30	40	50	60	70	80	90	100	150	200	V	
DC Reverse Voltage 直流反向电压	V _R	20	30	40	50	60	70	80	90	100	150	200	V	
RMS Reverse Voltage 反向电压均方根值	V _{R(RMS)}	14	21	28	35	42	49	56	63	70	105	140	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									50		A	
Thermal Resistance J-A 结到环境热阻	R _{θJA}	80											℃ /W	
Junction Temperature 结温	T _J	-65to+125					-65to+150							℃
Storage Temperature 储藏温度	T _{stg}	-65to+150											℃	

■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	K12-K14	K15-K16	K17-K110	K115-K120	Unit 单位	Condition 条件
Forward Voltage 正向电压	V_F	0.55	0.70	0.85	0.92	V	$I_F=1\text{A}$
Reverse Current 反向电流	$I_R(25^{\circ}\text{C})$ (100°C)	0.2 10			0.02 2	mA	$V_R=V_{RRM}$
Diode Capacitance 二极管电容	C_D	110			170	pF	$V_R=4\text{V}$, $f=1\text{MHz}$

■ Typical Characteristic Curve 典型特性曲线(K12-K110)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

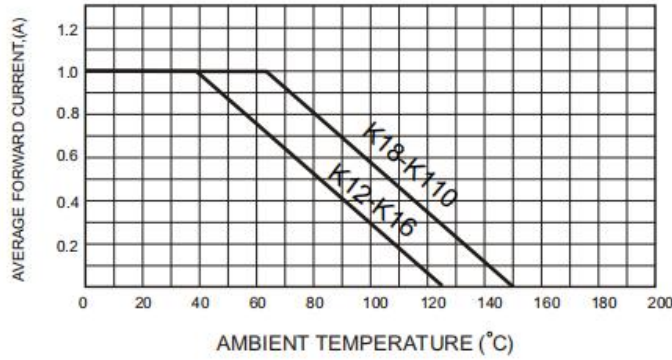


FIG.2-TYPICAL FORWARD CHARACTERISTICS

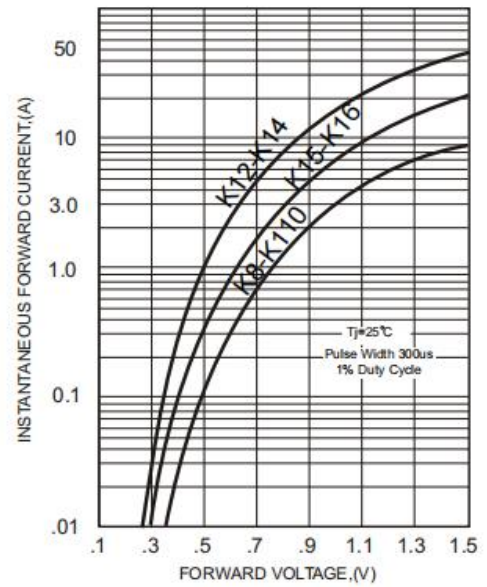


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

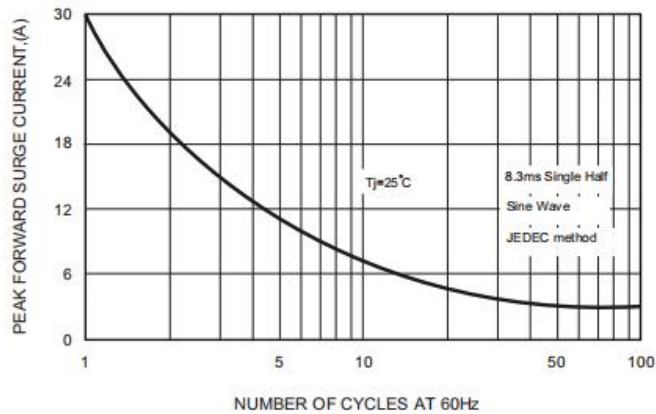


FIG.4-TYPICAL JUNCTION CAPACITANCE

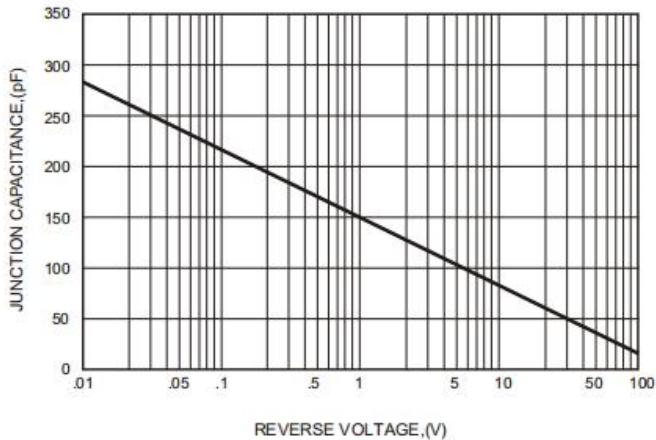
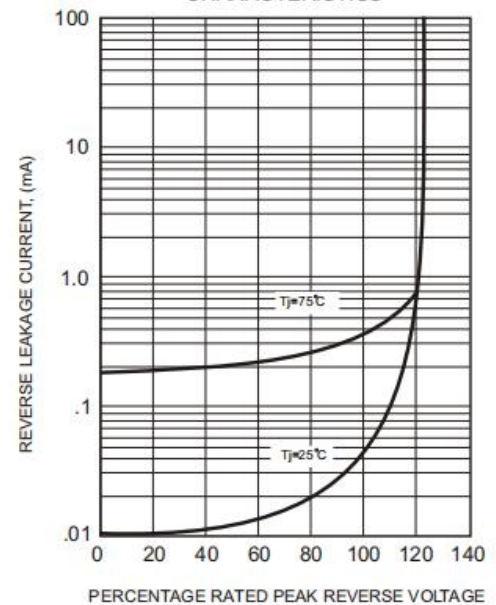


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



■ Typical Characteristic Curve 典型特性曲线(K115-K120)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

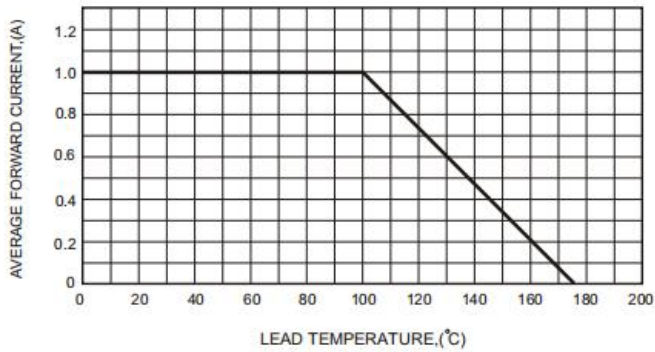


FIG.2-TYPICAL FORWARD CHARACTERISTICS

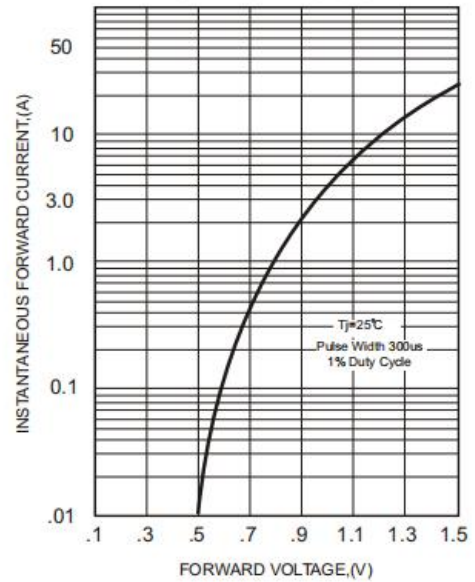


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

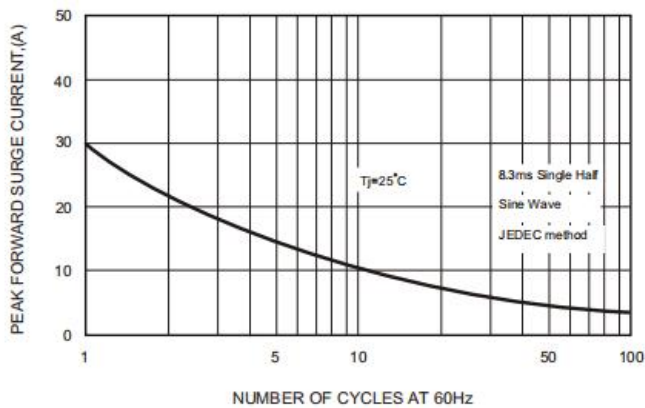


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

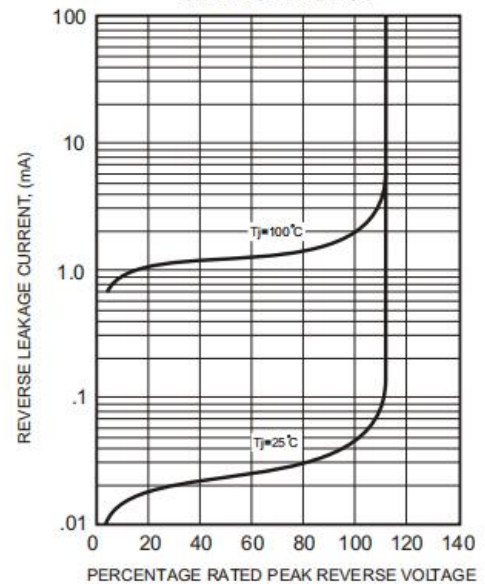
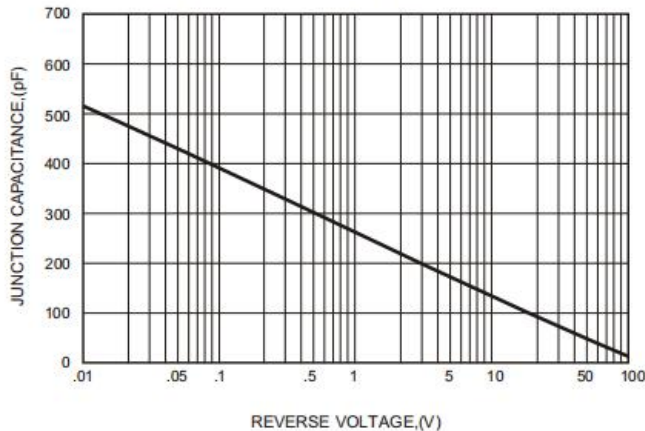


FIG.4-TYPICAL JUNCTION CAPACITANCE



■SOD-123FL Dimension 外形封装尺寸

Unit in inches(millimeters) 单位：英寸(毫米)

