

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	DSK 12W	DSK 13W	DSK 14W	DSK 15W	DSK 16W	DSK 17W	DSK 18W	DSK 19W	DSK 110W	DSK 115W	DSK 120W	Unit 单位
Marking 印字		K12	K13	K14	K15	K16	K17	K18	K19	K110	K115	K120	
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_{RRMS}	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	$R_{\theta JA}$	80											$^{\circ}\text{C}/\text{W}$
Junction Temperature 结温	T_J	-65to+125					-65to+150						$^{\circ}\text{C}$
Storage Temperature 储藏温度	T_{stg}	-65to+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	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

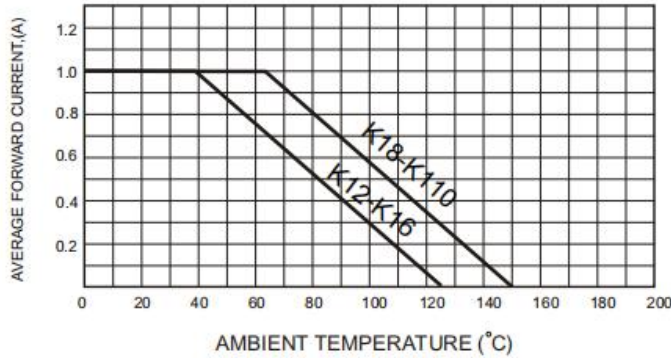


FIG.2-TYPICAL FORWARD CHARACTERISTICS

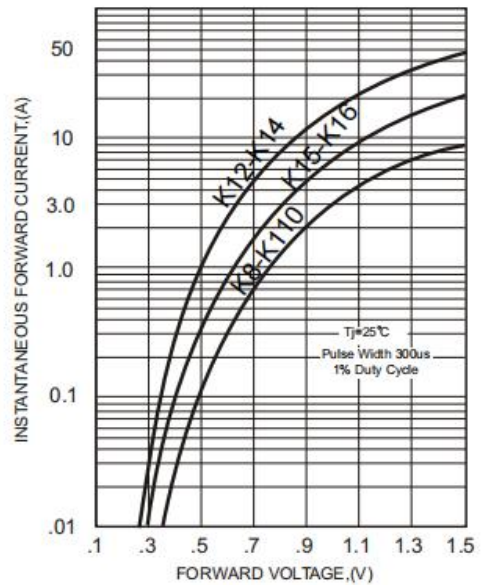


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

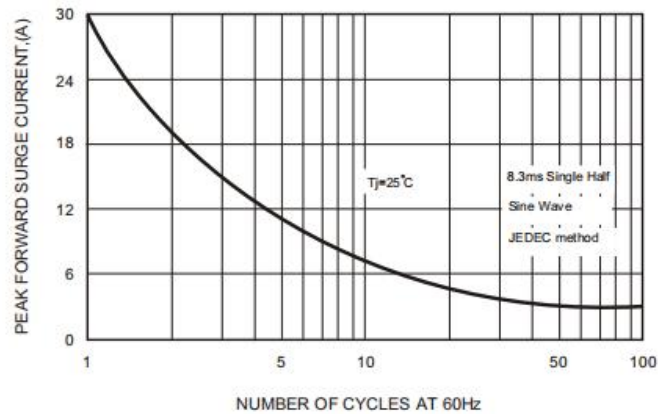


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

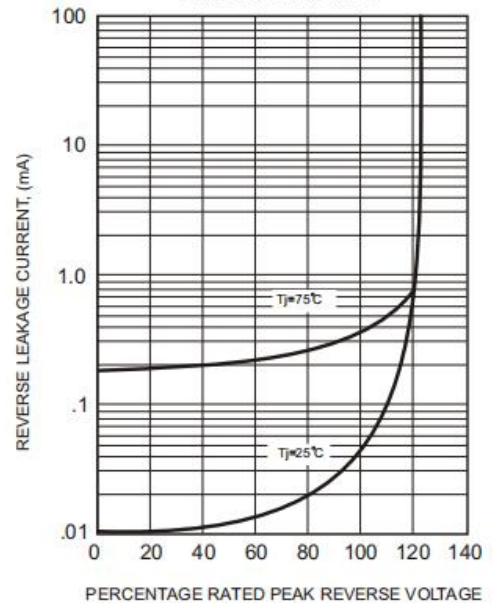
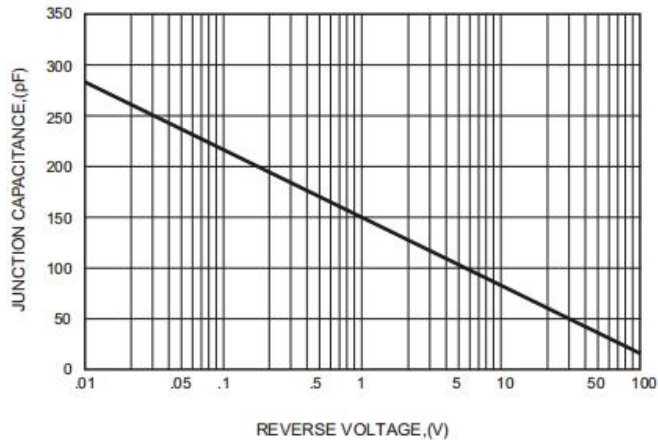


FIG.4-TYPICAL JUNCTION CAPACITANCE



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

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

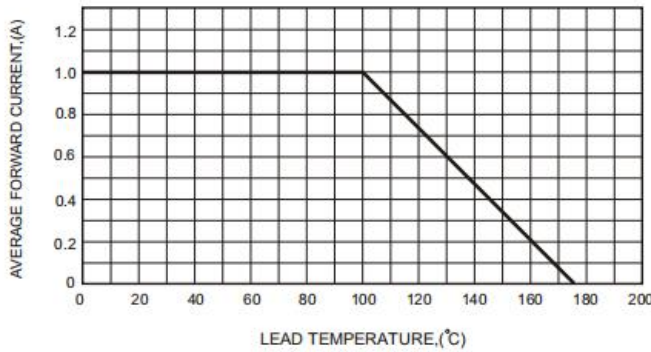


FIG.2-TYPICAL FORWARD CHARACTERISTICS

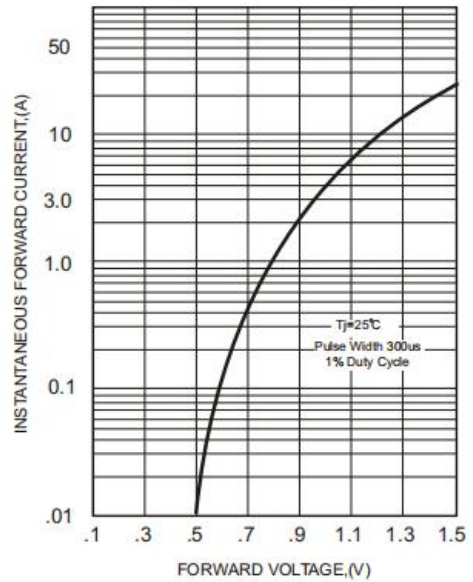


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

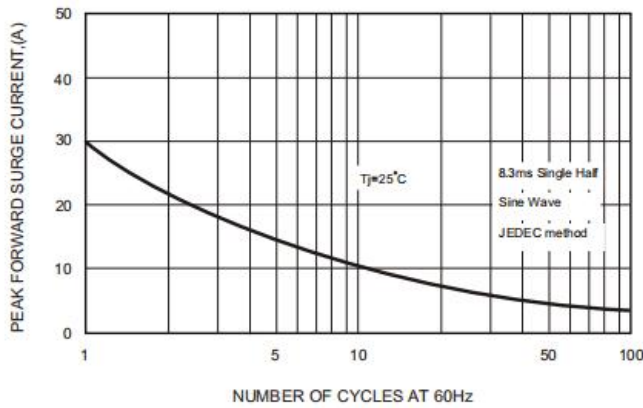


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

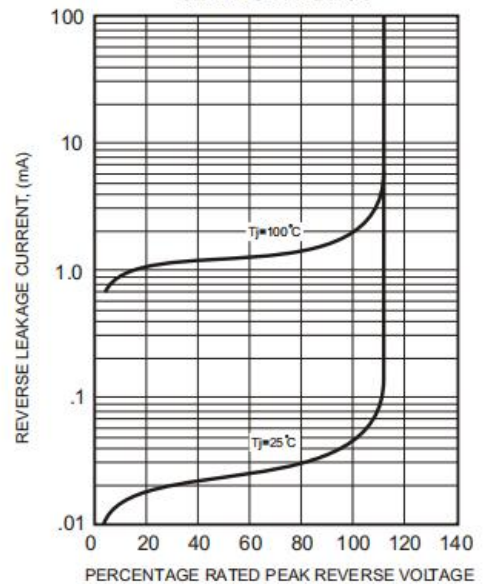
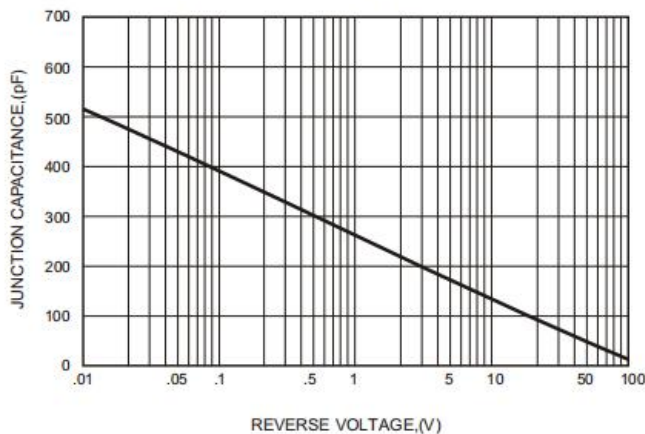


FIG.4-TYPICAL JUNCTION CAPACITANCE



■SOD-123FL Dimension 外形封装尺寸

Unit in inches(millimeters) 单位：英寸(毫米)

