

SMC 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:SMC(DO-214AB)



■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	SS310LC	Unit 单位
Peak Reverse Voltage 反向峰值电压	V_{RRM}	100	V
DC Reverse Voltage 直流反向电压	V_R	100	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	70	V
Forward Rectified Current 正向整流电流	I_F	3	A
Peak Surge Current 峰值浪涌电流	I_{FSM}	100	A
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	45	$^{\circ}\text{C}/\text{W}$
Thermal Resistance J-L 结到管脚热阻	$R_{\theta JL}$	12	$^{\circ}\text{C}/\text{W}$
Junction Temperature 结温	T_J	150	$^{\circ}\text{C}$
Storage Temperature 储藏温度	T_{stg}	-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	Type 典型值	Max 最大值	Unit 单位	Condition 条件
Forward Voltage 正向电压	V_F	0.74	0.79	V	$I_F=3\text{A}$
Reverse Current 反向电流	$I_R(25^{\circ}\text{C})$	1	20	μA	$V_R=V_{RRM}$
Reverse Current 反向电流	$I_R(100^{\circ}\text{C})$	2	50	mA	$V_R=V_{RRM}$

■ Typical Characteristic Curve 典型特性曲线

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

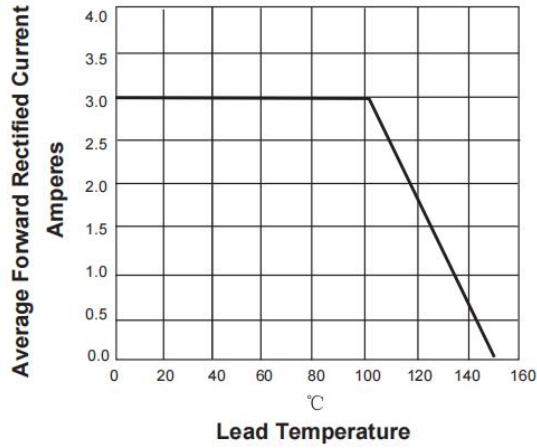


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

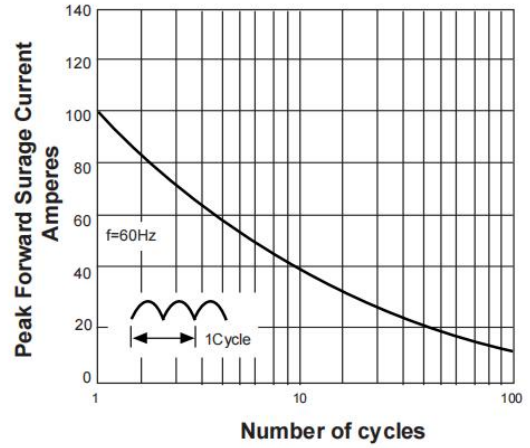


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

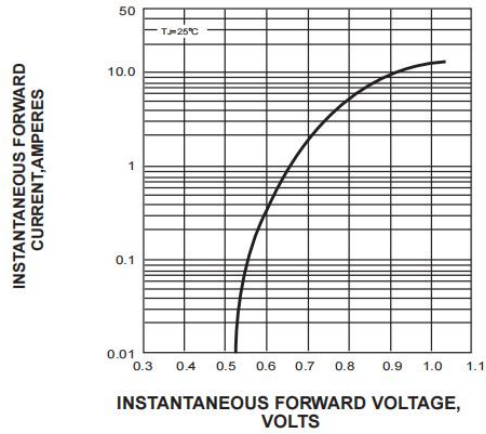
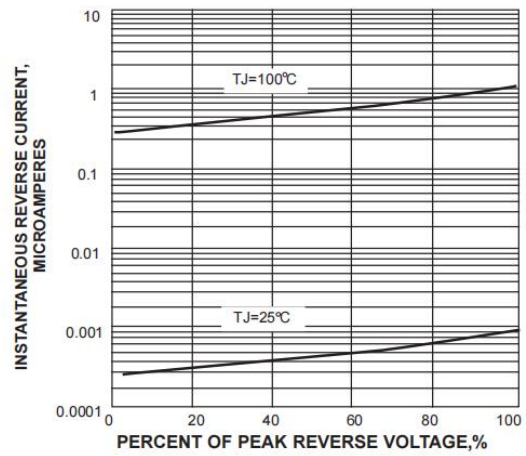
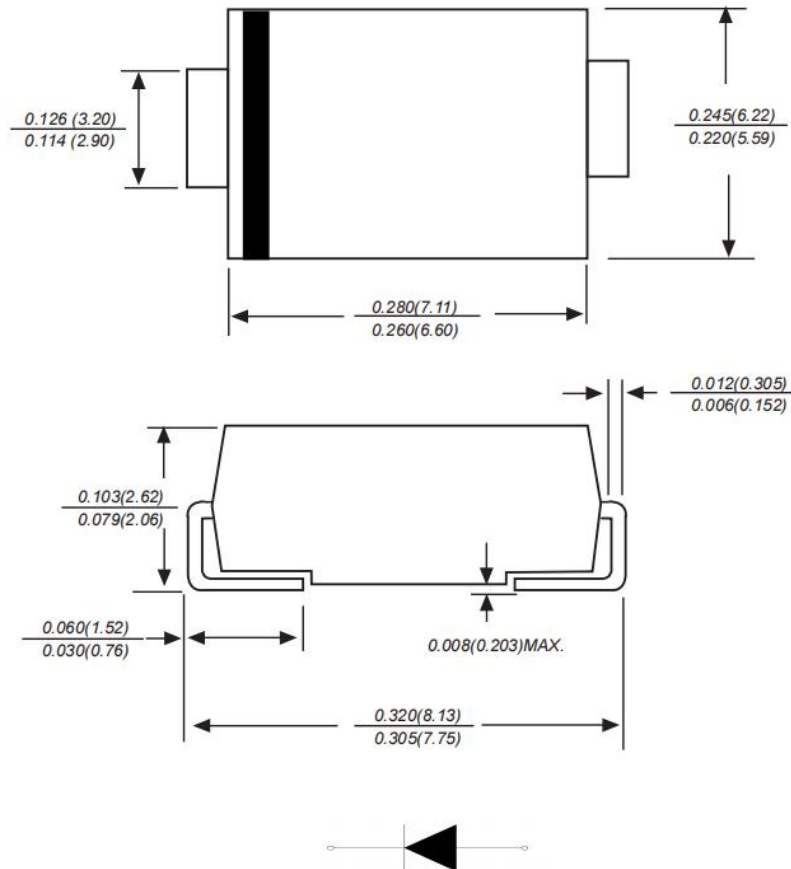


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



■Dimension 外形封装尺寸



Dimensions in inches and (millimeters)