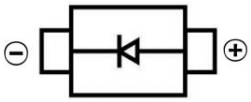
SMA General Purpose High Voltage Rectifier Diode 通用高压整流二极管



■Features 特点

Low reverse leakage current 低反向漏电流
High surge current capability 高浪涌电流能力
Built-in strain relief 内应力释放
Surface mount device 表面贴装器件
Case 封装:SMA

HF RoHS

■Maximum Rating 最大额定值

(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃**)**

Characteristic 特性参数	Symbol 符号	GS1MA-AAF	GS1YA-AAF	GS1ZA-AAF	Unit 单位
Peak Reverse Voltage 反向峰值电压	V_{RRM}	1000	1600	2000	V
DC Reverse Voltage 直流反向电压	V_R	1000	1600	2000	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	700	1120	1400	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			A
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	95			℃/W
Junction and Storage Temperature 结温和储藏温度	T_J,T_{stg}	150℃,-55to+150℃			

■Electrical Characteristics 电特性

(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃**)**

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			1.15	V	I_F=1A
Reverse Current(T_A=25℃/) 反向电流(T_A=125℃/)	I_R			5 50	uA	V_R=V_{RRM}
Diode Capacitance 二极管电容	C_D		20		pF	V_R=4V,f=1MHz

■Typical Characteristic Curve 典型特性曲线

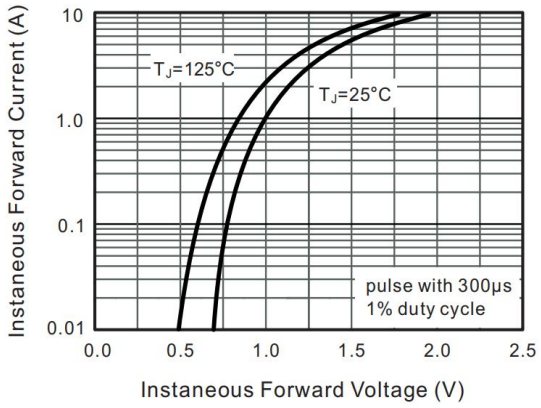


Figure 1: Forward Characteristics

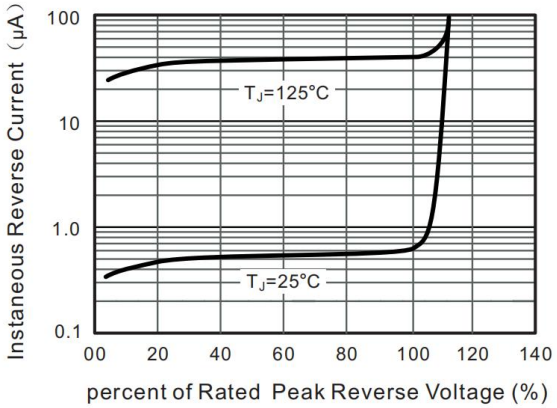


Figure 2: Reverse Characteristics

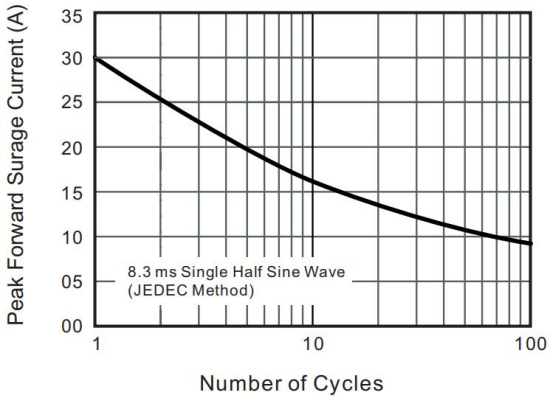


Figure 3:Surge Current Characteristics

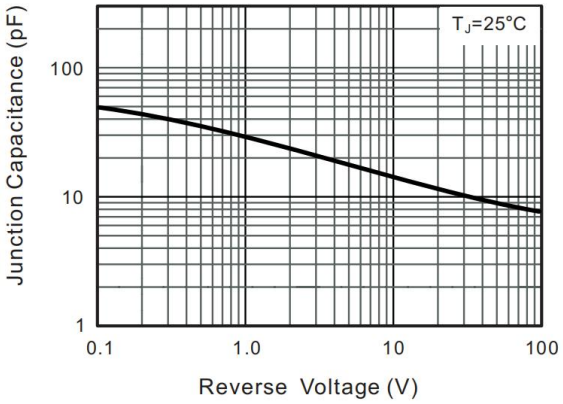


Figure 4: Junction Capacitance

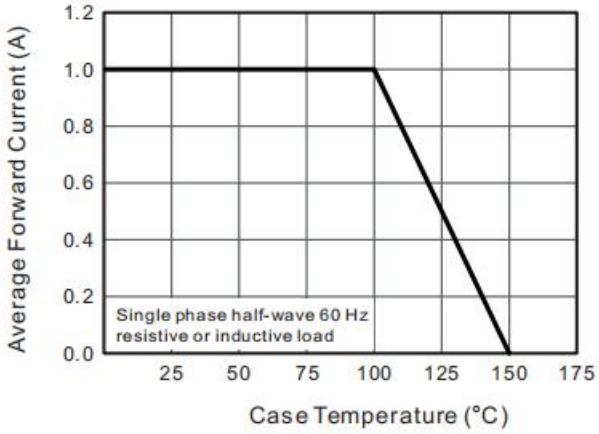
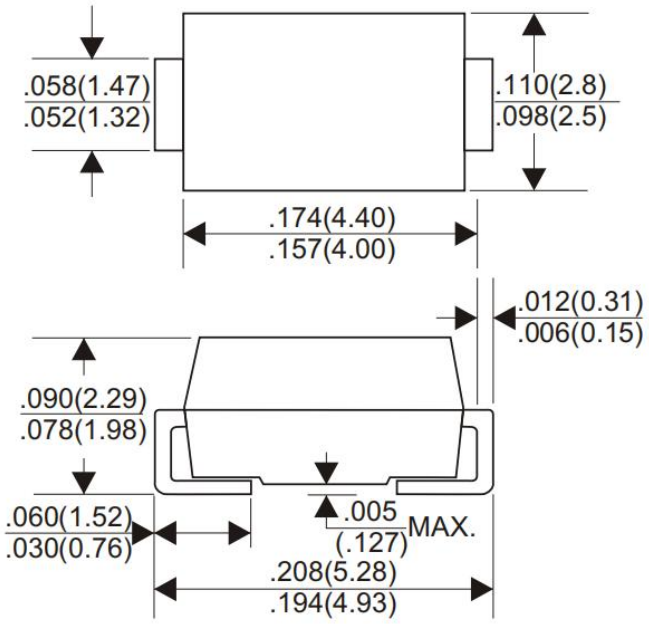


Figure 5: Forward Current Derating

■**Dimension** 外形封装尺寸

DO-214AC(SMA)



Dimensions in inches and (millimeters)