



GS3A THRU GS3M

硅整流二极管 General Purpose Rectifier

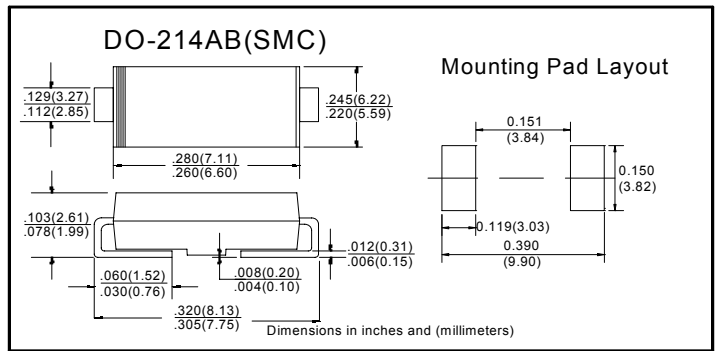
■特征 Features

- I_o 3.0A
- V_{RRM} 50V-1000V
- 耐正向浪涌电流能力高
High surge current capability
- 封装: 模压塑料
Cases: Molded plastic

■用途 Applications

- 整流用 Rectifier

■外形尺寸和印记 Outline Dimensions and Mark



■极限值（绝对最大额定值）

Limiting Values (Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Conditions	GS3						
				A	B	D	G	J	K	M
反向重复峰值电压 Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	200	400	600	800	1000
正向平均电流 Average Forward Current	I _{F(AV)}	A	正弦半波 60Hz，电阻负载， T _L =103℃ 60HZ Half-sine wave, Resistance load, T _L =103℃	3						
正向（不重复）浪涌电流 Surge(Non-repetitive)Forward Current	I _{FSM}	A	正弦半波 60Hz，一个周期，T _a =25℃ 60Hz Half-sine wave ,1 cycle , T _a =25℃	100						
结温 Junction Temperature	T _J	℃		-55~+150						
储存温度 Storage Temperature	T _{STG}	℃		-55 ~ +150						

■电特性（ $T_a=25^{\circ}C$ 除非另有规定）

Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		GS3						
					A	B	D	G	J	K	M
正向峰值电压 Peak Forward Voltage	V _F	V	I _F =2.5A		1.15						
反向漏电流 Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	T _a =25℃	10						
	T _a =125℃			250							
热阻 (典型) Thermal Resistance(Typical)	R _{θJ-A}	℃/W	结和环境之间 Between junction and ambient		47 ¹⁾						
	R _{θJ-L}		结和终端之间 Between junction and terminal		13 ¹⁾						

备注: Notes:

¹⁾ 热阻从结到环境及从结到引线, 在电路板的0.3" x 0.3" (8.0毫米 x 8.0毫米)铜垫片区

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

■特性曲线（典型） Characteristics(Typical)

图1：正向电流降额曲线
FIG.1: FORWARD CURRENT DERATING CURVE

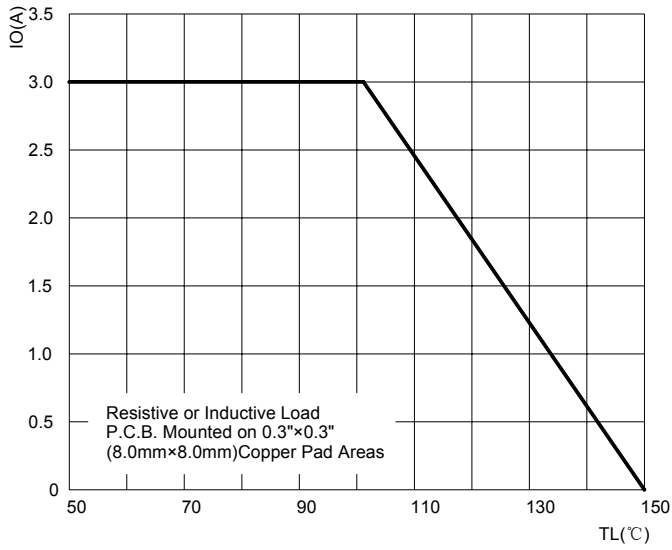


图2：最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

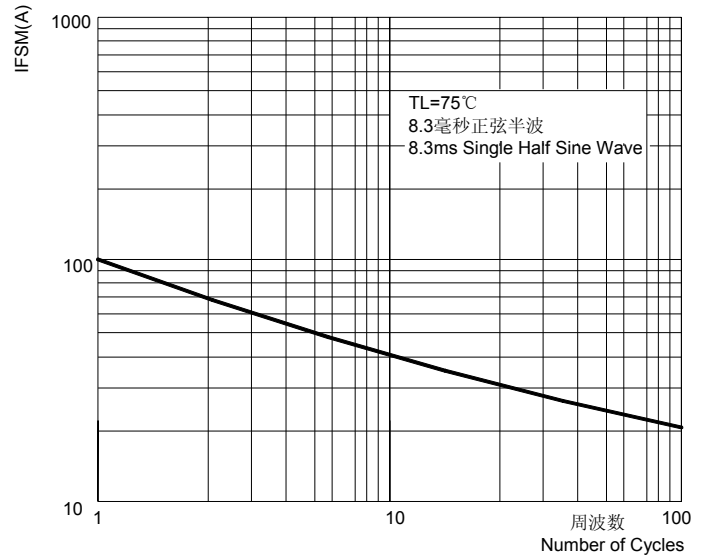


图3：典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

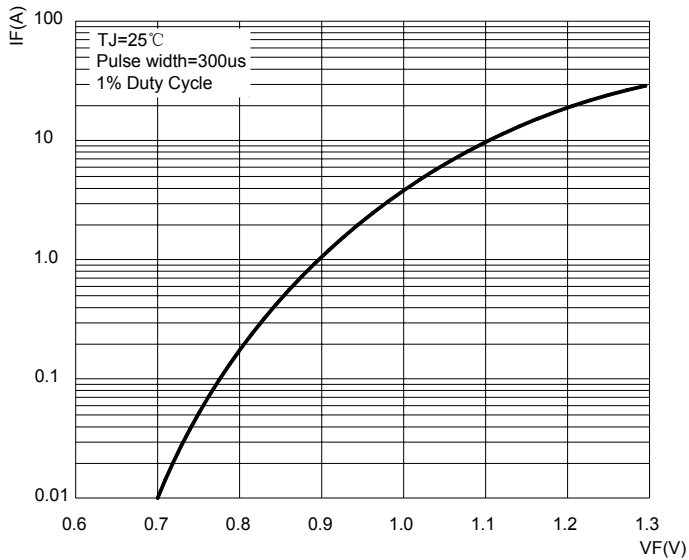


图4：典型反向特性曲线
FIG.4: TYPICAL REVERSE CHARACTERISTICS

