



快恢复整流二极管 Fast Recovery Rectifier Diode

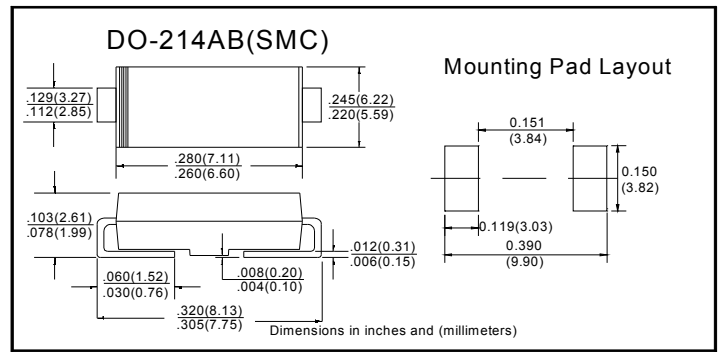
■特征 Features

- 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	GR3						
				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 =75℃ 60HZ Half-sine wave, Resistance load, T _L =75℃	3.0						
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, Ta=25℃ 60Hz Half-sine wave ,1 cycle , Ta =25℃	100						
结温 Junction Temperature	T _J	℃		-55~+150						
储存温度 Storage Temperature	T _{STG}	℃		-55 ~ +150						

■电特性（ $T_a=25^\circ\text{C}$ 除非另有规定）Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		GR3						
					A	B	D	G	J	K	M
正向峰值电压 Peak Forward Voltage	V _F	V	I _F =3.0A		1.3						
最大反向恢复时间 Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A		150				250	500	
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		50 ¹⁾						
	R _{θJ-L}		结和终端之间 Between junction and terminal		15 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

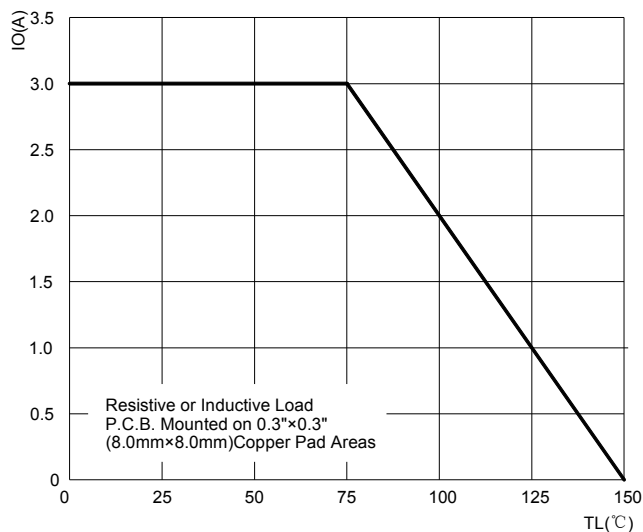


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

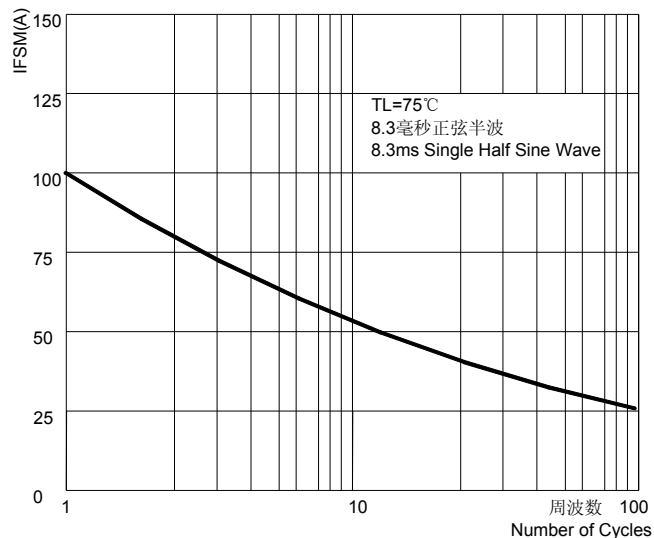


图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

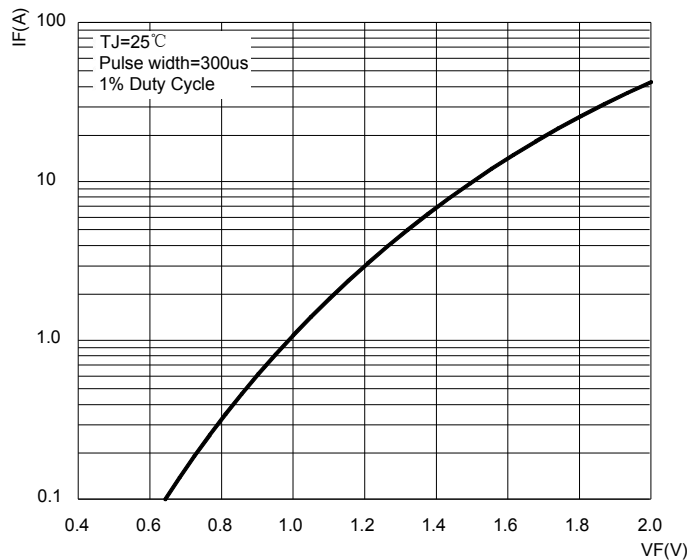


图4: 典型反向特性曲线
FIG.4: TYPICAL REVERSE CHARACTERISTICS

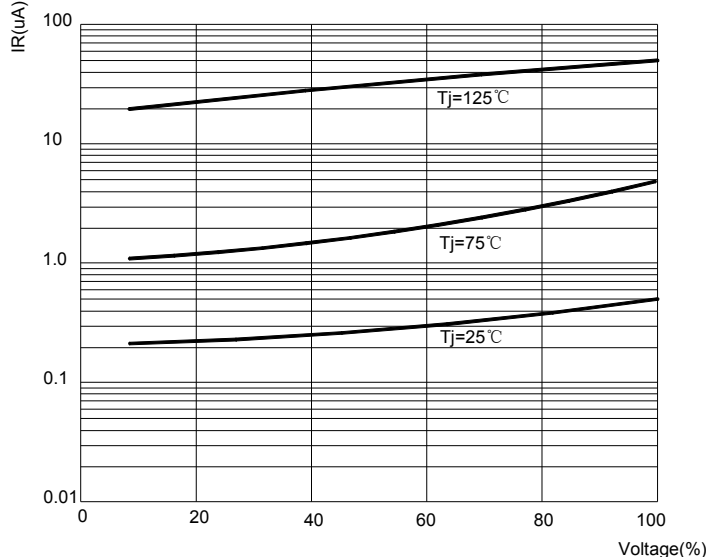


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

