



快恢复整流二极管 Fast Recovery Rectifier Diode

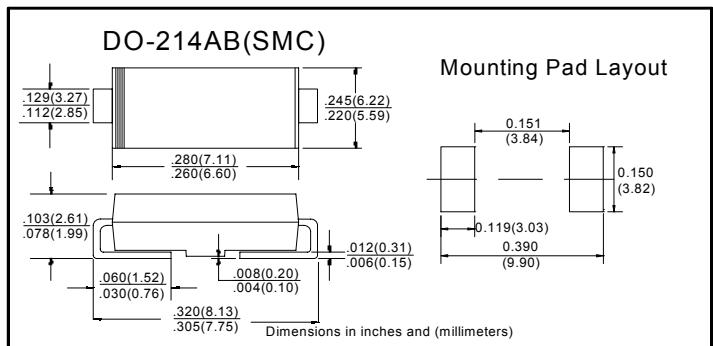
■ 特征 Features

- 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, $T_L=75^\circ C$ 60Hz Half-sine wave, Resistance load, $T_L=75^\circ C$							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, $T_a=25^\circ C$ 60Hz Half-sine wave ,1 cycle , $T_a=25^\circ C$							100
结温 Junction Temperature	T_J	°C								-55~+150
储存温度 Storage Temperature	T_{STG}	°C								-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	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} I_{RRM2}	μA	$V_{RM}=V_{RRM}$ $T_a=25^\circ C$ $T_a=125^\circ C$							10 250
热阻(典型) Thermal Resistance(Typical)	$R_{\theta J-A}$ $R_{\theta J-L}$	$^\circ C/W$	结和环境之间 Between junction and ambient							50 ¹⁾
			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)

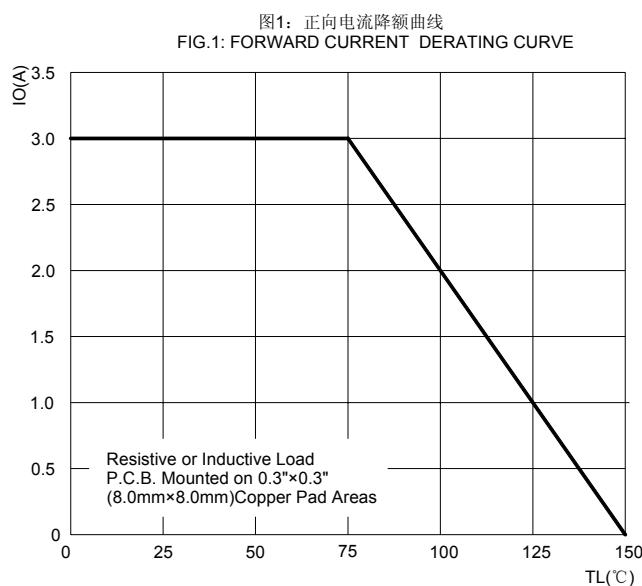


图2: 最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

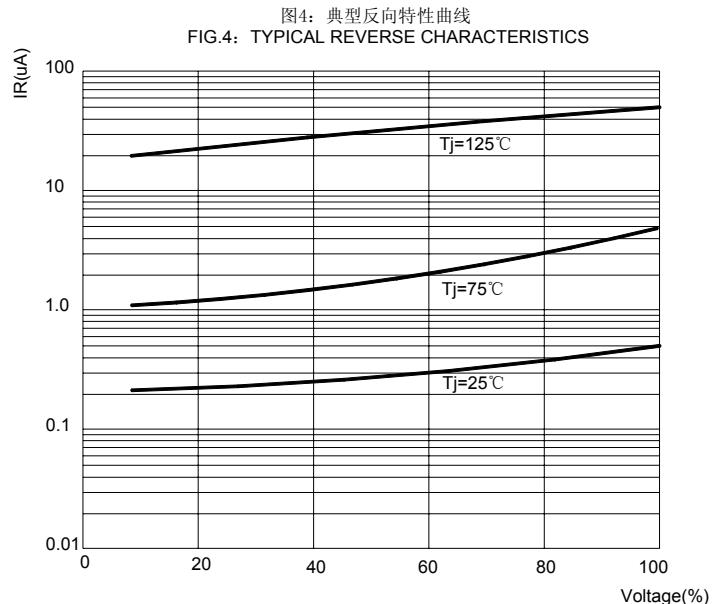
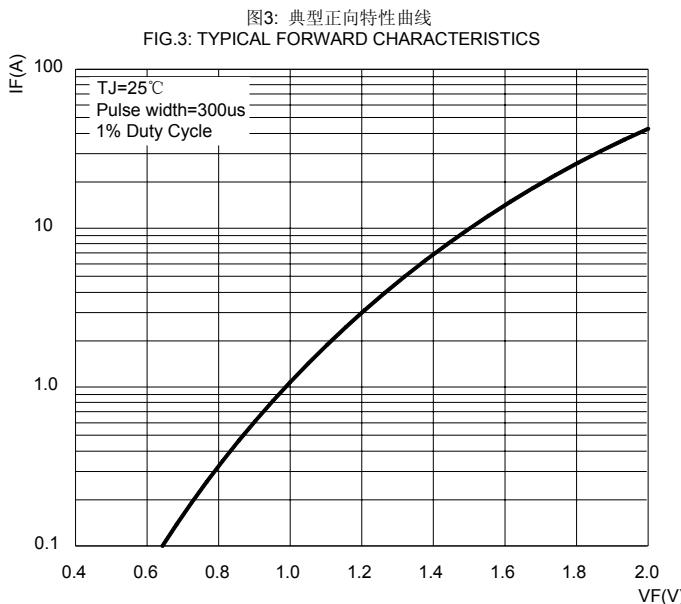
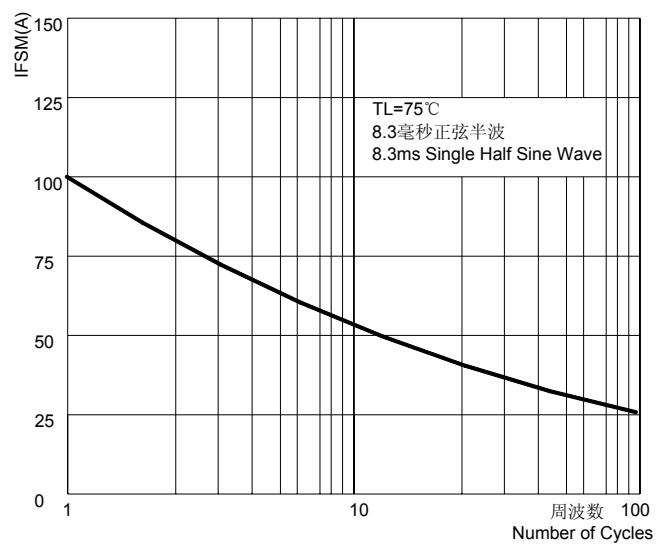


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

