



高效整流二极管 High Efficient Rectifier

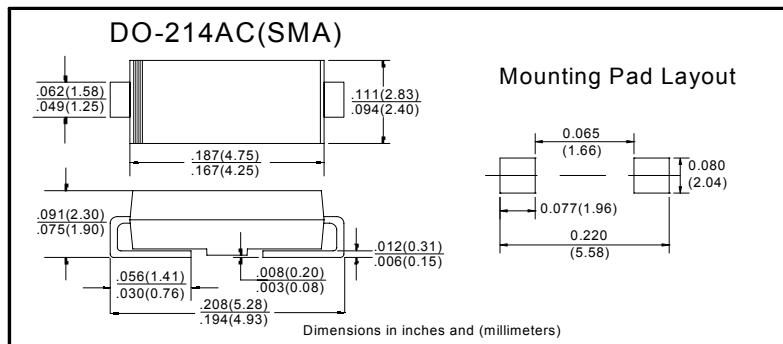
■ 特征 Features

- I_o 1.0A
- 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	HS1						
				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, TL=110°C 60Hz Half-sine wave, Resistance load, TL = 110°C							1.0
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°C 60Hz Half-sine wave ,1 cycle , Ta =25°C							30
结温 Junction Temperature	T_J	°C								-55~+150
储存温度 Storage Temperature	T_{STG}	°C								-55 ~ +150

■ 电特性 (Ta=25°C 除非另有规定)

Electrical Characteristics (Ta=25°C Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	HS1						
				A	B	D	G	J	K	M
正向峰值电压 Peak Forward Voltage	V_F	V	$I_F=1.0A$							
最大反向恢复时间 Maximum reverse recovery time	t_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$							
反向漏电流 Peak Reverse Current	I_{RRM1} I_{RRM2}	μA	$V_{RM}=V_{RRM}$ $T_a=25^{\circ}C$ $T_a=100^{\circ}C$							
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 结和终端之间 Between junction and terminal							

备注: Notes:

¹⁾ 热阻从结到环境及从结到引线，在电路板的0.2" x 0.2" (5.0毫米 x 5.0毫米)铜垫片区

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



■特性曲线(典型) Characteristics(Typical)

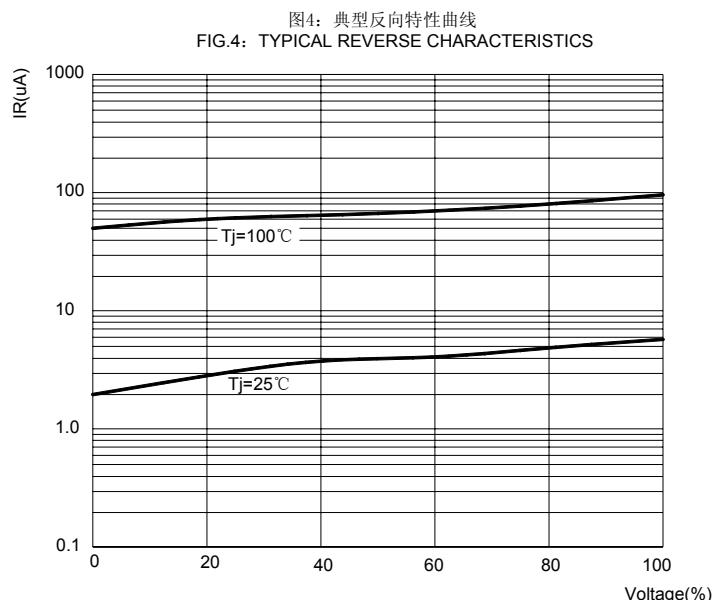
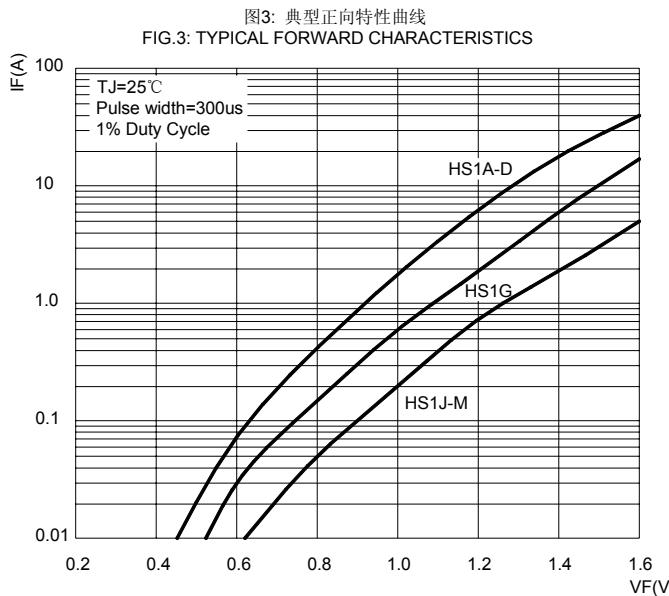
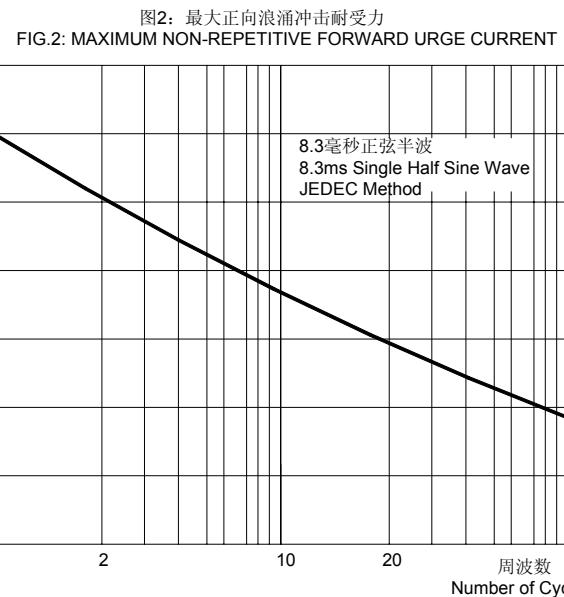
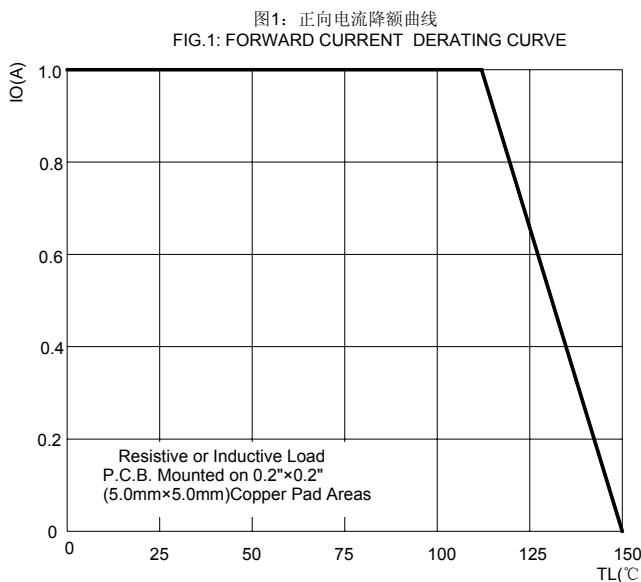


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

