

外形尺寸和印记

Outline Dimensions and Mark

SMC

DO-214AB

Dimensions in inches and (millimeters)

特征

Features

- I_o 3A
- VRRM
- 耐正向浪涌电流能力高
- High surge current capability

用途

Applications

- 整流用 Rectifier

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	条件 Conditions	RS						
				3A	3B	3D	3G	3J	3K	3M
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, $T_a=50^{\circ}C$ 60Hz Half-sine wave, Resistance load, $T_a=50^{\circ}C$	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, $T_a=25^{\circ}C$ 60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$	100						
结温 Junction Temperature	T_J	$^{\circ}C$		-55~+125						
储存温度 Storage Temperature	T_{STG}	$^{\circ}C$		-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		RS						
					3A	3B	3D	3G	3J	3K	3M
正向峰值电压 Peak Forward Voltage	V _{FM}	V	I _{FM} =1.0A		1.3						
反向峰值电流 Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	T _a =25℃	5						
	I _{RRM2}			T _a =100℃	50						
反向恢复时间 Reverse Recovery time	t _{rr}	ns	I _F =0.5A I _R =1A I _{RR} =0.25A		150			250	500		
热阻(典型) Thermal Resistance(Typical)	R _{θJ-A}	℃/W	结和环境之间 Between junction and ambient		55						
	R _{θJ-L}		结和引线之间 Between junction and lead		25						

■特性曲线（典型）

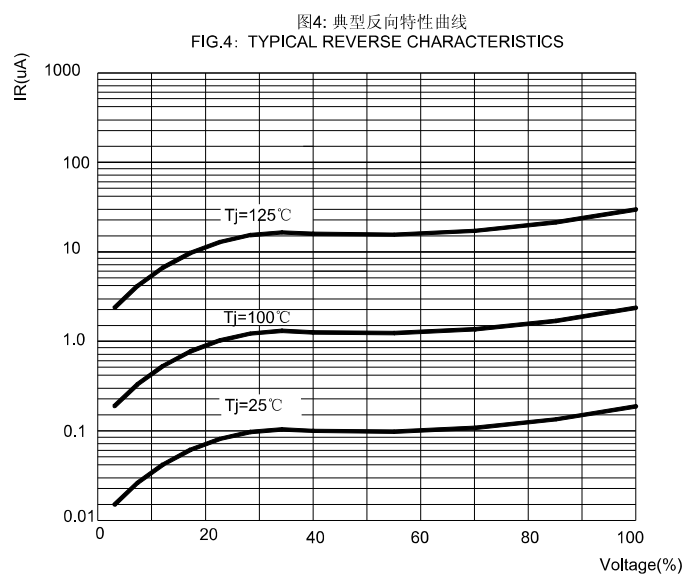
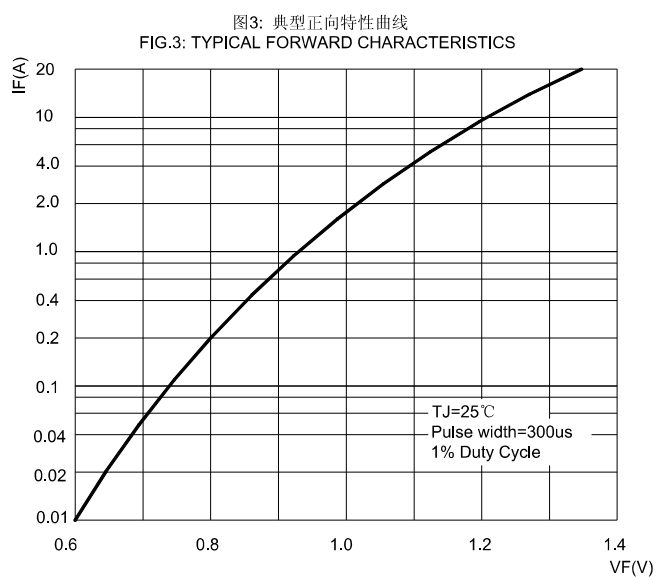
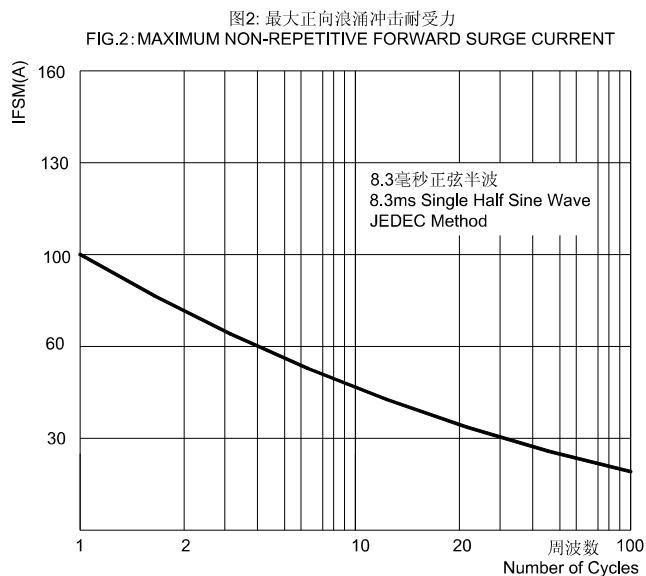
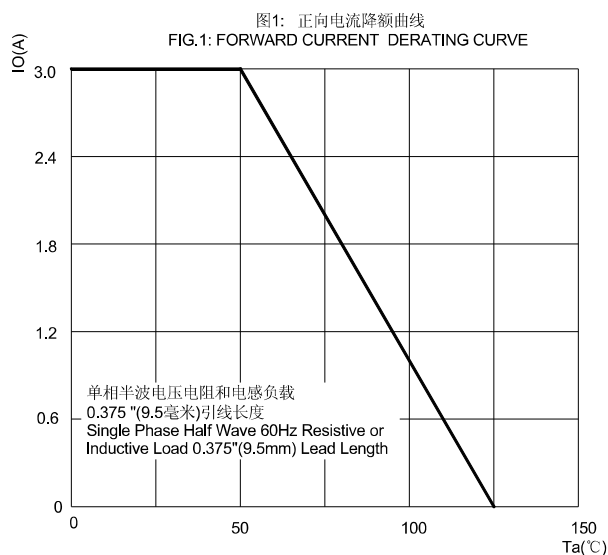


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

