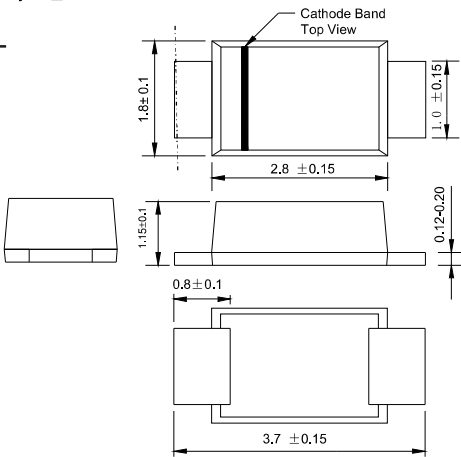


外形尺寸和印记Outline Dimensions and Mark

SOD-123FL



Dimensions in millimeters

特征Features

- I_o1.0A
- VRRM50V-1000V
- 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	U							
				1A	1B	1D	1F	1G	1J	1K	1M
反向重复峰值电压 Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	200	300	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 Ta=75℃ 60Hz Half-sine wave, Resistance load, Ta=75℃	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℃ 60Hz Half-sine wave, 1 cycle, Ta=25℃	25							
结温 Junction Temperature	T _J	℃		-55~+125							
储存温度 Storage Temperature	T _{STG}	℃		-55 ~ +150							

电特性（Ta=25℃ 除非另有规定）

Electrical Characteristics (Ta=25℃ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition		U						
					1A	1B	1D	1F	1G	1J	1K
正向峰值电压 Peak Forward Voltage	V _{FM}	V	I _{FM} =1.0A		1.0			1.3		1.7	
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		50				75		
热阻(典型) Thermal Resistance(Typical)	R _{θJ-A}	℃/W	结和环境之间 Between junction and ambient		85 ¹⁾						
	R _{θJ-L}		结和引线之间 Between junction and lead		35 ¹⁾						

■特性曲线（典型）

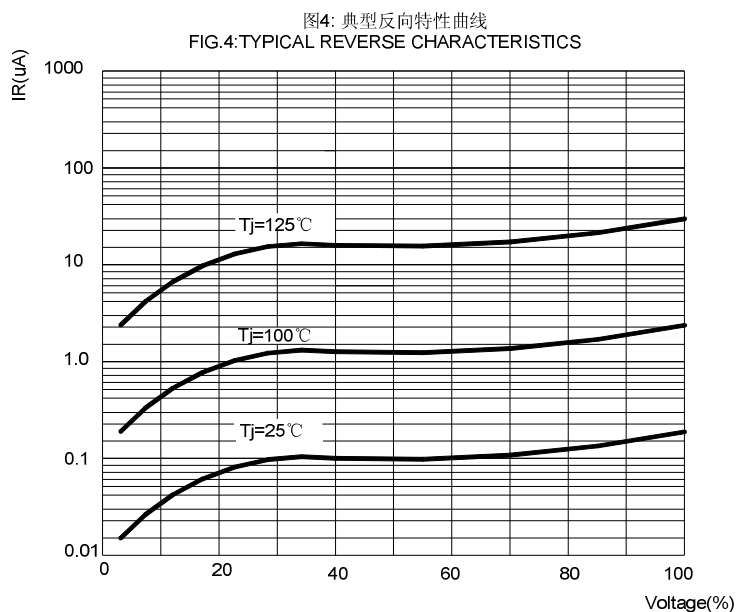
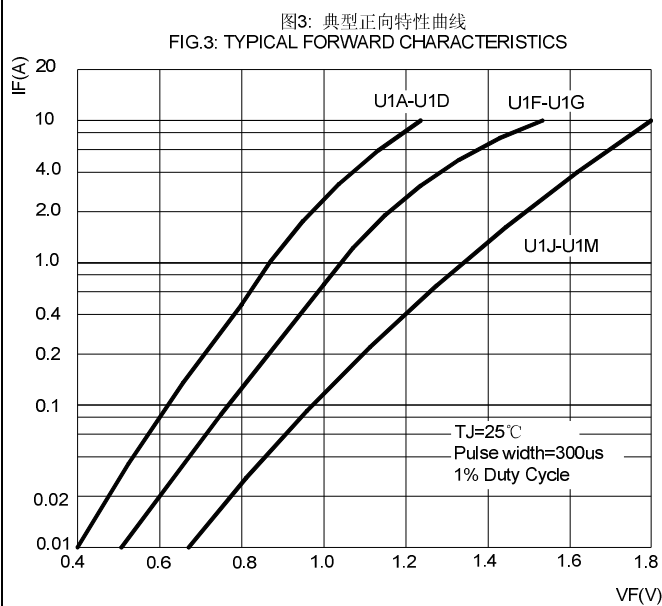
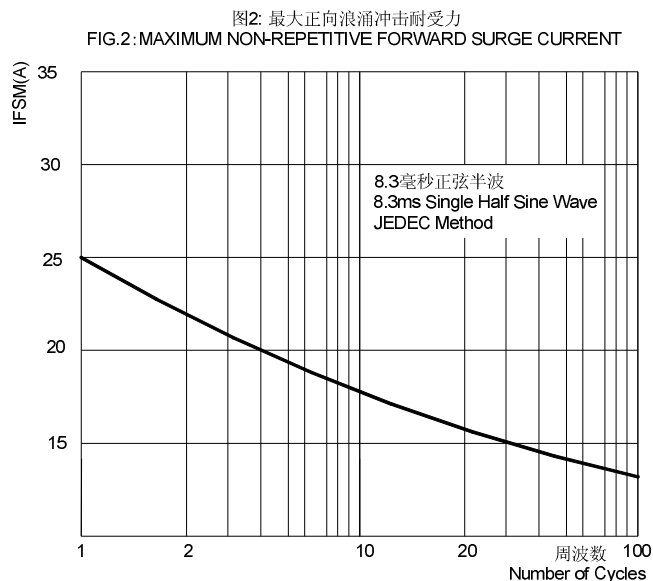
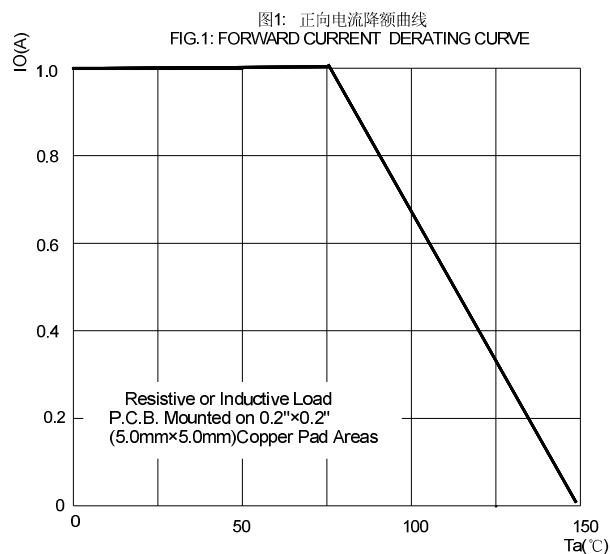


图5: 反向恢复时间试验电路及测试波形示意图
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

