

Super Fast Rectifier
■特征 Features

- I_o 5.0A
- V_{RRM} 50V-600V
- 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	ES5							
				A	B	C	D	F	G	H	J
反向重复峰值电压 Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	150	200	300	400	500	600
正向平均电流 Average Forward Current	I _{F(AV)}	A	正弦半波 60Hz, 电阻负载 Ta=50°C 60Hz Half-sine wave, Resistance load, Ta=50°C							5.0	
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							150	
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)

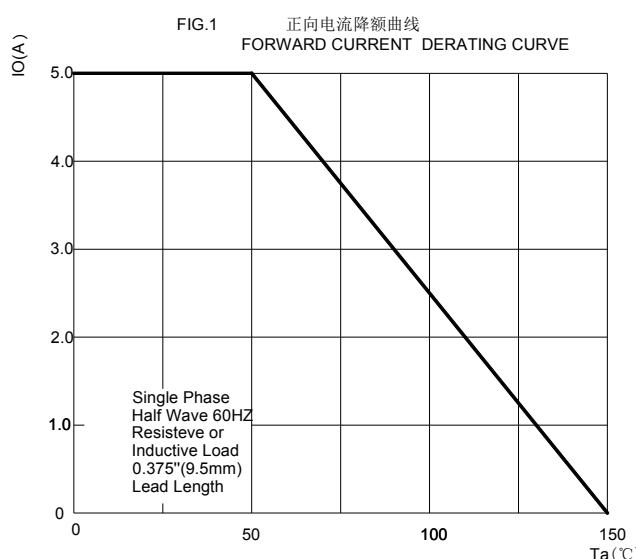
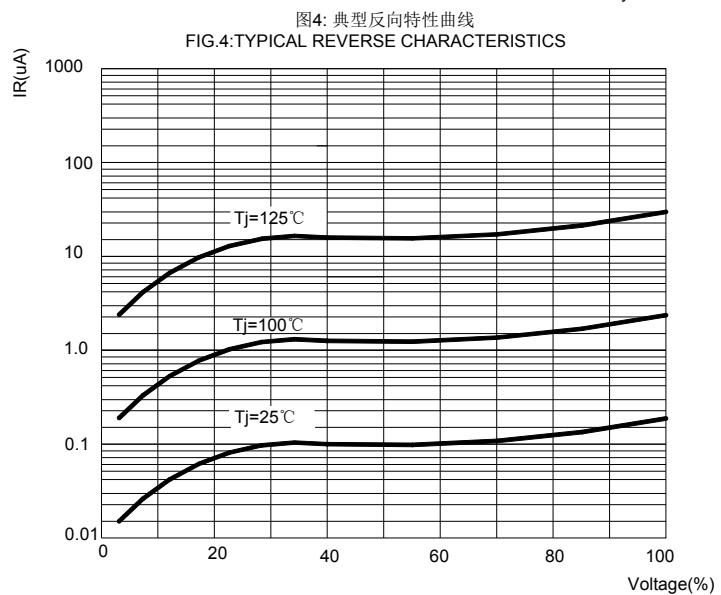
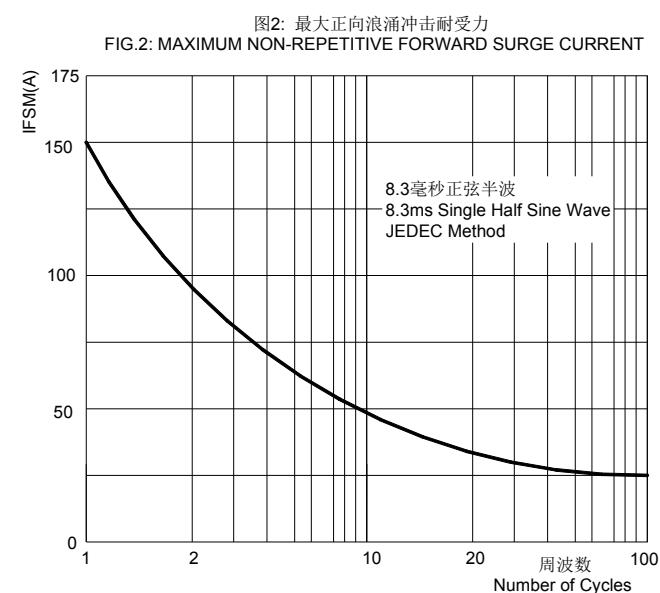
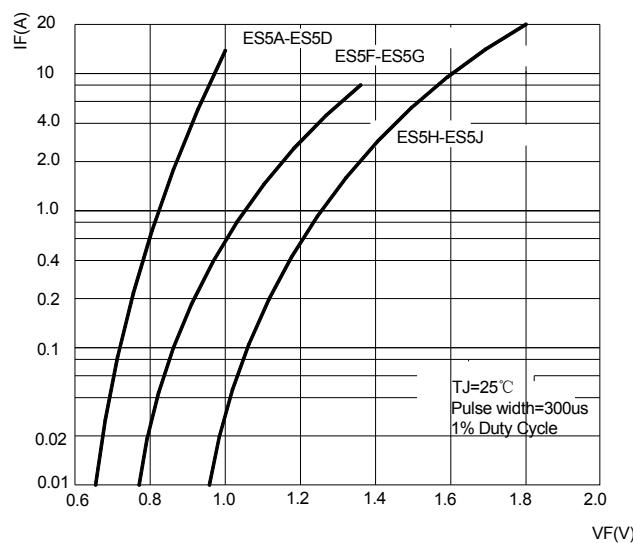
参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	ES5							
				A	B	C	D	F	G	H	J
正向峰值电压 Peak Forward Voltage	V _{FM}	V	I _{FM} =5.0A	0.95		1.3		1.7			
反向峰值电流 Peak Reverse Current	I _{RRM1}	μ A	V _{RM} =V _{RRM}	T _a =25°C				10			
	I _{RRM2}			T _a =125°C				500			
反向恢复时间 Reverse Recovery time	t _r	ns	I _F =0.5A I _R =1A I _{RR} =0.25A					35			
热阻(典型) Thermal Resistance(Typical)	R _{θJ-A}	°C/ W	结和环境之间 Between junction and ambient					50			
	R _{θJ-L}		结和引线之间 Between junction and lead					15			

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)

FIG.3 典型正向特性曲线
TYPICAL FORWARD 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