



# SF11G THRU SF18G

## 超快恢复二极管 Super Fast Rectifier

### ■特征 Features

- $I_o$  1.0A
- VRRM 50V-600V
- 耐正向浪涌电流能力高
- High surge current capability

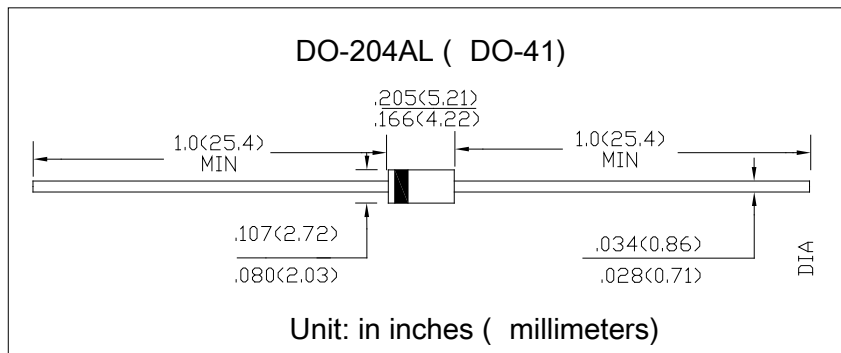
### ■用途 Applications

- 整流用 Rectifier

### ■极限值（绝对最大额定值）

#### •Limiting Values (Absolute Maximum Rating)

### ■外形尺寸和印记 Outline Dimensions and Mark



参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	SF							
				11G	12G	13G	14G	15G	16G	17G	18G
反向重复峰值电压 Repetitive Peak Reverse Voltage	VRRM	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, $T_a=50^{\circ}C$ ); (60HZ Half-sine wave, Resistance load, $T_a=50^{\circ}C$ )	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, $T_a=25^{\circ}C$ ) (60HZ Half-sine wave, 1 cycle, $T_a=25^{\circ}C$ )	30							
结温 Junction Temperature	$T_j$	$^{\circ}C$		-55~+150							
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		最大值 Max							
					SF							
					11G	12G	13G	14G	15G	16G	17G	18G
正向峰值电压 Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>FM</sub> =1.0A		0.95				1.3		1.7	
反向峰值电流 Peak Reverse Current	I <sub>RRM1</sub>	μA	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>a</sub> =25℃	5							
	I <sub>RRM2</sub>			T <sub>a</sub> =125℃	50							
反向恢复时间 Reverse Recovery time	t <sub>rr</sub>	ns	I <sub>F</sub> =0.5A I <sub>R</sub> =1A I <sub>RR</sub> =0.25A		35							
热阻 (典型) Thermal Resistance(Typical)	R <sub>θJ-A</sub>	℃/W	结和环境之间 Between junction and ambient		55							
	R <sub>θJ-L</sub>		结和引线之间 Between junction and lead		25							

## ■ 特性曲线 (典型) Characteristics(Typical)

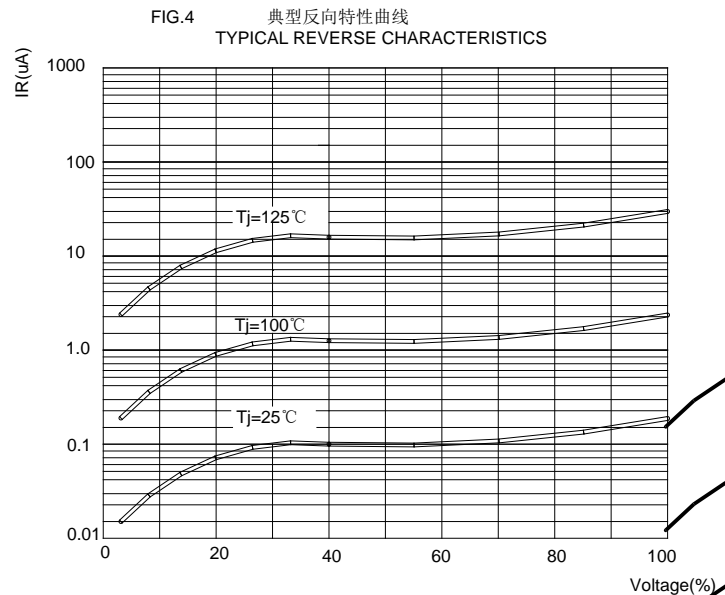
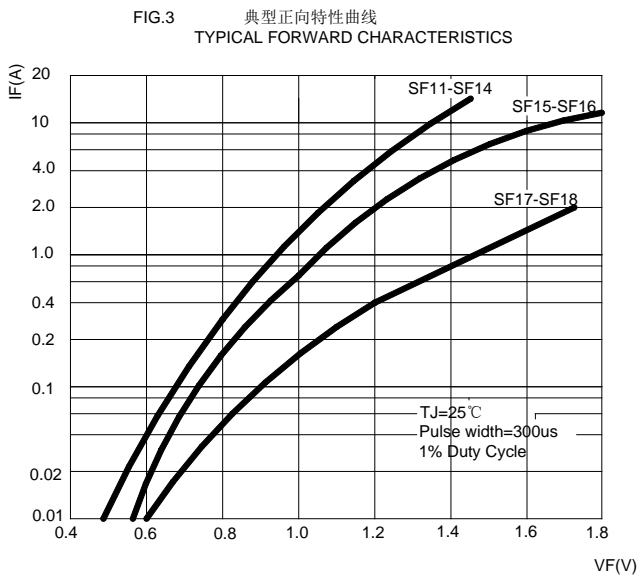
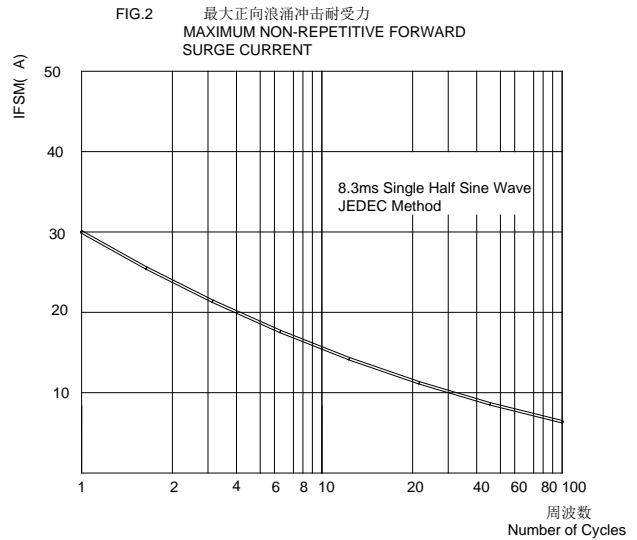
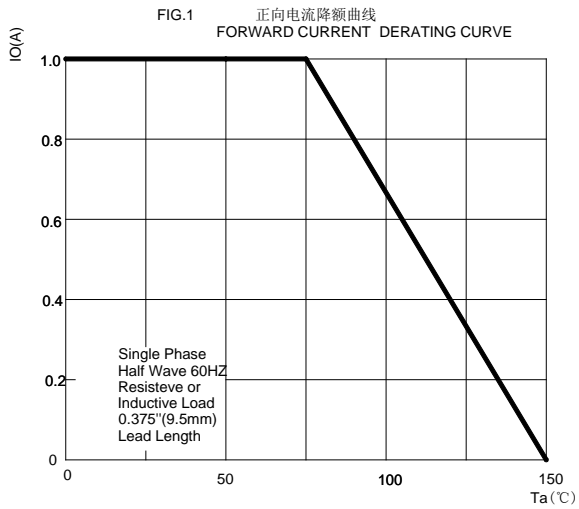


FIG.5 反向恢复时间试验电路及测试波形示意图  
Diagram of circuit and Testing wave form of reverse recovery time

