



Micro Commercial Components



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20736 Marilla Street Chatsworth  
CA 91311  
Phone:(818) 701-4933  
Fax: (818) 701-4939

# SF61G THRU SF68G

## 6.0 Amp Glass Passivated Super Fast Recovery Rectifier 50 to 600 Volts

### Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- High current capability,High reliability

### Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

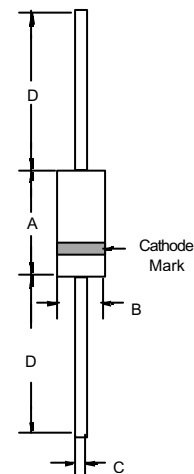
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SF61G	50	35	50
SF62G	100	70	100
SF63G	150	105	150
SF64G	200	140	200
SF65G	300	210	300
SF66G	400	280	400
SF67G	500	350	500
SF68G	600	420	600

### Electrical Characteristics @ 25 C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	$T_A = 50^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SF61G-SF64G SF65G-SF66G SF67G-SF68G	$V_F$	0.975V 1.3V 1.7V	$I_{FM} = 6.0A$ ; $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0 $\mu$ A 150 $\mu$ A	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Typical Junction Capacitance SF61G-SF64G SF65GG-SF68G	$C_J$	120pF 90pF	Measured at 1.0MHz, $V_R=4.0V$
Maximum Reverse Recovery Time	$T_{RR}$	35nS	$I_F=0.5A$ , $I_R=1.0A$ , $I_{RR}=0.25A$

Notes: 1. High Temperature Solder Exemption AppXed, see EU Directive Annex Notes 7.

### DO-201AD



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.370	---	9.50	
B	---	.250	---	6.40	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

# SF61G thru SF68G

## Characteristics(Typical)

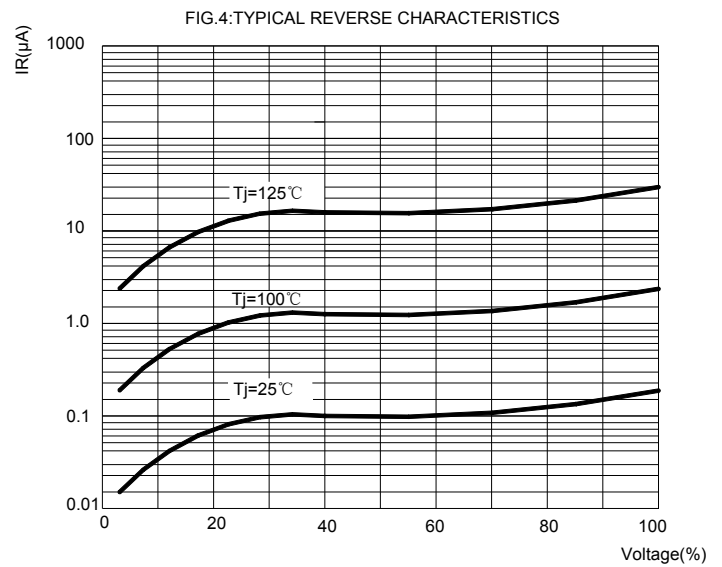
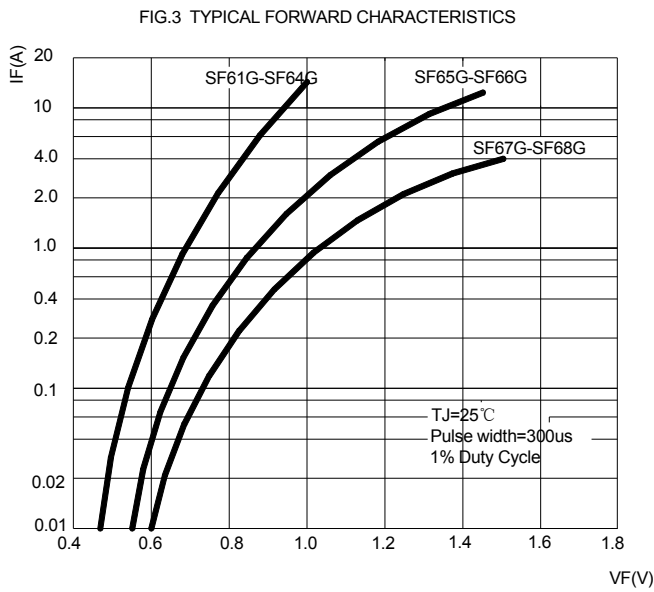
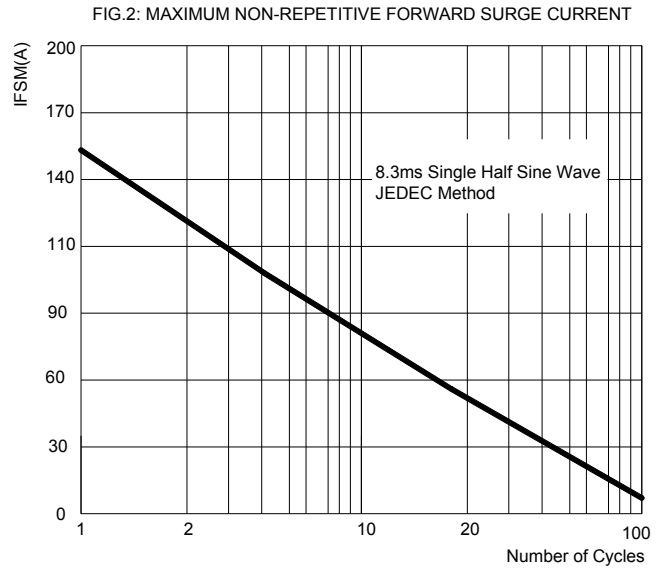
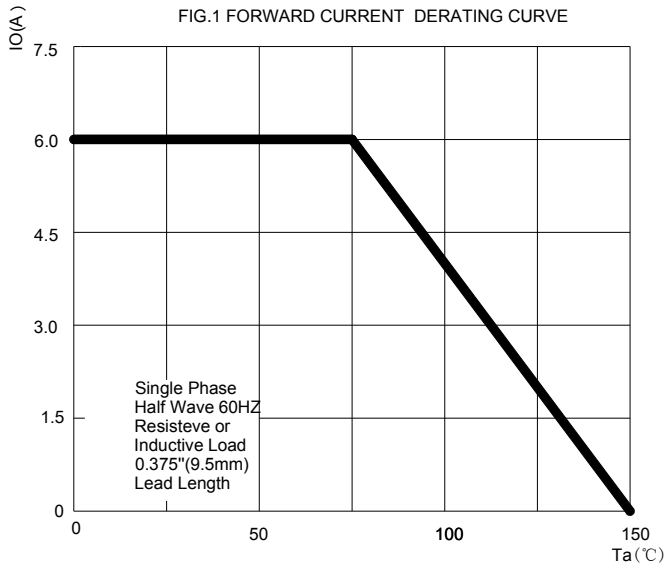
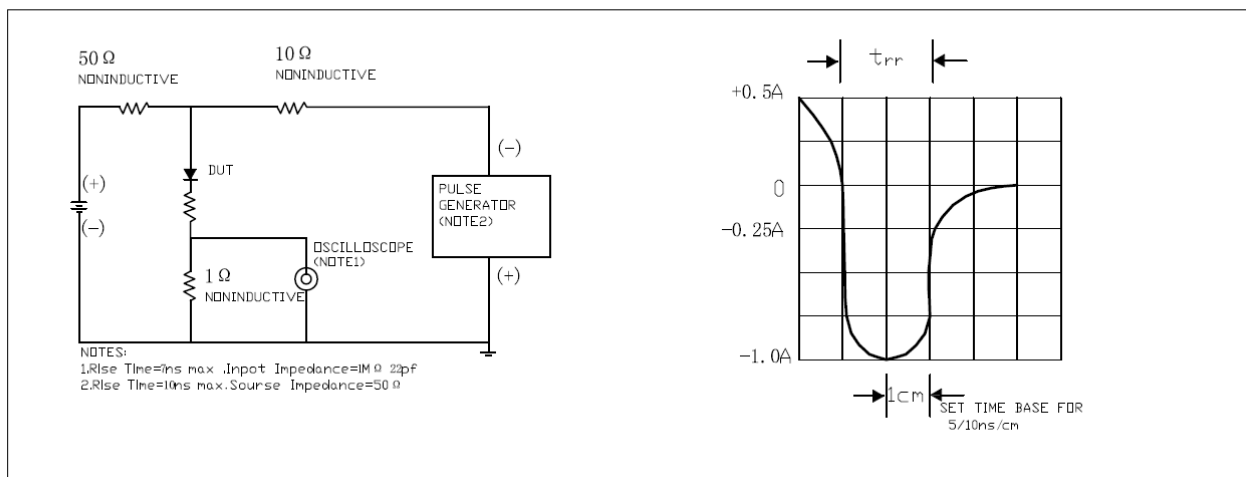


FIG.5 Diagram of circuit and Testing wave form of reverse recovery time





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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