



Super Fast Glass Passivated Rectifier

Features

- Low power loss, high efficiency
- Low leakage
- High Surge Capacity
- Glass passivated chip junction
- Super fast switching speed
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length
- RoHS and REACH Compliance



Mechanical Data

Case:	Transfer molded plastic
Polarity:	Color band denots cathode end
Epoxy:	UL94V-0 rate flame retardant
Lead:	Plated axial lead, solderable per MIL-STD-202E Method 208C
Mounting Position:	Any
Weight:	0.07 ounce, 2.0 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

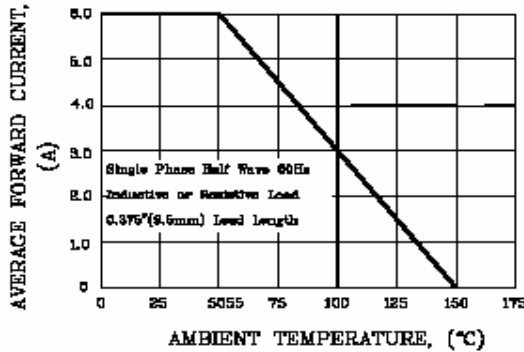
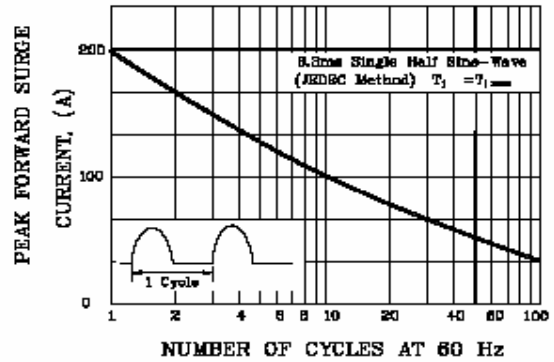
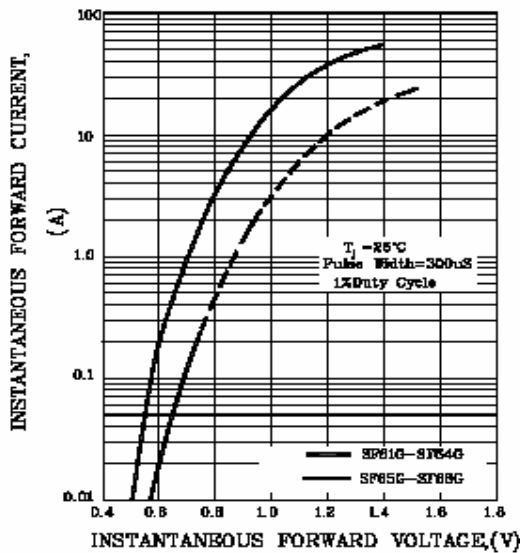
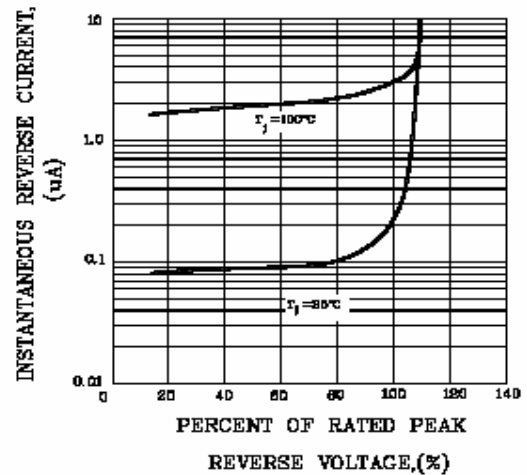
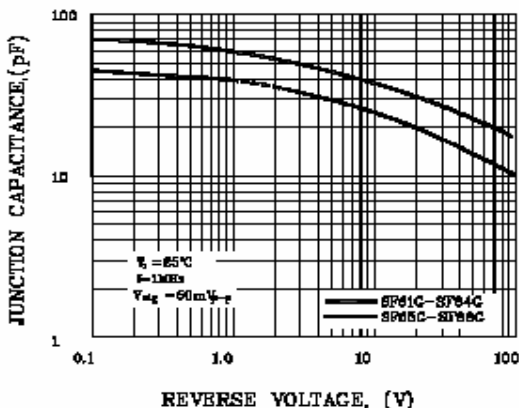
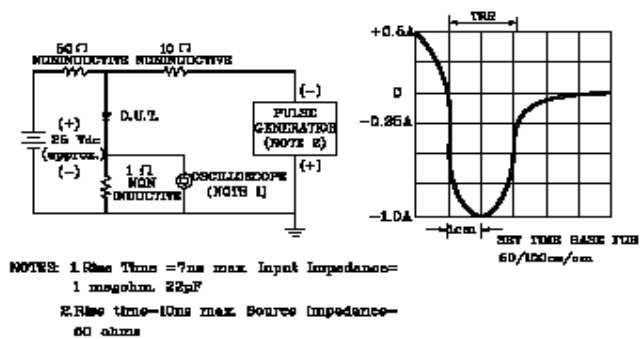
Symbol	Description	SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF67G	SF68G	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	150	200	300	400	500	600	V	
VRMS	Max RMS Voltage	35	70	105	140	210	280	350	420	V	
VDC	Max DC Blocking Voltage	50	100	150	200	300	400	500	600	V	
I(AV)	Max Average Forward Rectified Current 0.375" (9mm) lead length	6.0								A	TA=50°C Note 2
IFSM	Peak Forward Surge Current	200								A	JEDEC method
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150, -55 to +150								°C	
Rθ-JA	Typical Thermal Resistance	110								°C/W	Note 2

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

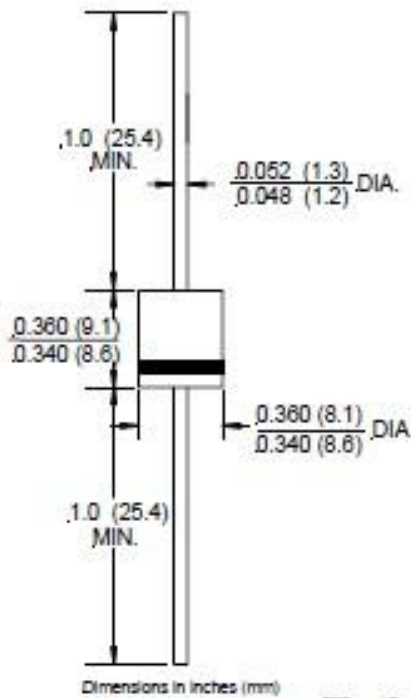
Symbol	Description	SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF67G	SF68G	Unit	Conditions
VF	Max Instantaneous Forward Voltage	0.95		1.25			1.7			V	6.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	10.0								μA	TA=25°C
		150									TA=125°C
TRR	Maximum reverse recovery time	35								nS	Note 1
CJ	Typical Junction capacitance	50				30				pF	Measured at 1.0MHz / 4.0V

Note:

1. Reverse recovery test conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
2. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

SF61G ~ SF68G
RATINGS AND CHARACTERISTIC CURVES SF61G THRU SF68G
FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.4-TYPICAL REVERSE CHARACTERISTICS

FIG.5-TYPICAL JUNCTION CAPACITANCE

FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC


Dimensions in inches (mm)



R-6

Contact us:

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