

SF61G thru SF68G

Super Fast Recovery Glass Passivated Recitifiers

Reverse Voltage - 50 to 600 Volts Forward Current - 6.0 Amperes

FEATURES

- Super fast switching for high efficiency
- ■Low leakage current
- High forward surge capability
- ●Solder dip 260 °C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

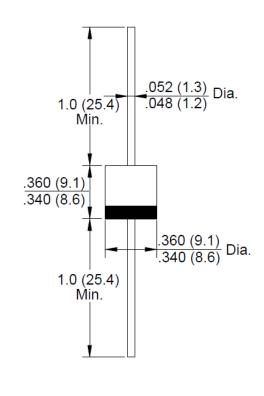
MECHANICAL DATA

- ●Case: JEDEC R-6 molded plastic body
- Terminals: Plated axial leads, solderable per

MIL-STD-750, Method 2026

- ●Polarity: Color band denotes cathode end
- Mounting Position: Any
- ●Weight: 1.2 grams

R-6



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

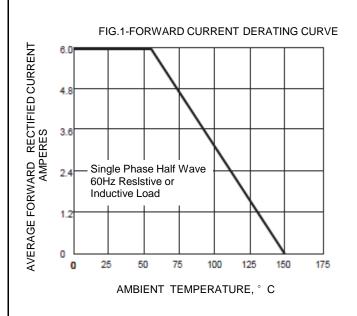
CHARACTERISTICS	SYMBOL	SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF68G	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at Ta=55 $^{\circ}$ C	I(AV)	6.0							А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150							А
Maximum Instantaneous Forward Voltage at 6.0A	VF	0.95				25	1.7	V	
Maximum DC Reverse Current @ TJ=25℃ at Rated DC Blocking Voltage @ TJ=100℃	lr	5.0 50							μΑ
Maximum Reverse Recovery Time (NOTE 1)	Trr	35							nS
Typical Junction Capacitance (NOTE 2)	Сл	120 70					70		рF
Typical Thermal Resistance (NOTE 3)	RθJA	30							°C/W
Operating Temperature Range	TJ	-65 to +150							$^{\circ}\mathbb{C}$
Storage Temperature Range	Тѕтс	-65 to +150							$^{\circ}$

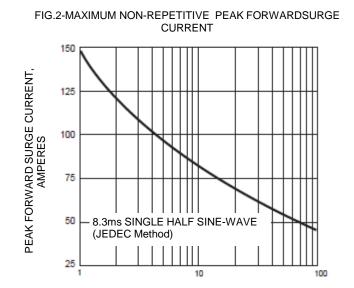
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

- 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted
- 4.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERTIC CURVES SF61G thru SF68G





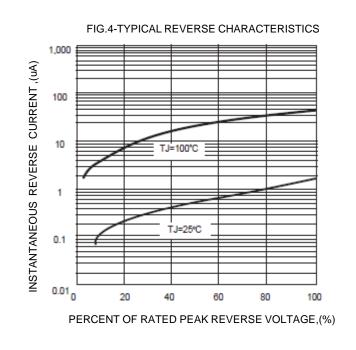


NUMBER OF CYCLETS AT 60Hz

20 T_{J=25°C}
10 PULSE WIDTH=300 μs
1%DUTY CYCLE
1%DUTY C

FIG.3-TYPICAL INSTANTANEOUS FORWARD

CHARACTERISTICS



The curve above is for reference only. 曲线图仅供参考。



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