

Super Fast Recovery Glass Passivated Rectifiers

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

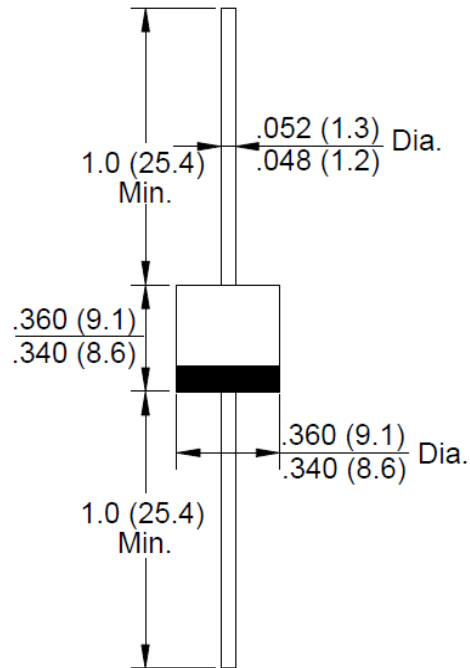
FEATURES

- 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 (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C 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	V _{RRM}	50	100	150	200	300	400	600	v	
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	v	
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	v	
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T _A =55°C	I _(AV)	6.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150							A	
Maximum Instantaneous Forward Voltage at 6.0A	V _F	0.95			1.25		1.7		V	
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =100°C	I _R	5.0				50				µA
Maximum Reverse Recovery Time (NOTE 1)	T _{rr}	35								nS
Typical Junction Capacitance (NOTE 2)	C _J	120				70				pF
Typical Thermal Resistance (NOTE 3)	R _{θJA}	30							°C/W	
Operating Temperature Range	T _J	-65 to +150							°C	
Storage Temperature Range	T _{STG}	-65 to +150							°C	

Note: 1. Reverse recovery condition I_F=0.5A, I_R=1.0A, I_{rr}=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).

FIG.1-FORWARD CURRENT DERATING CURVE

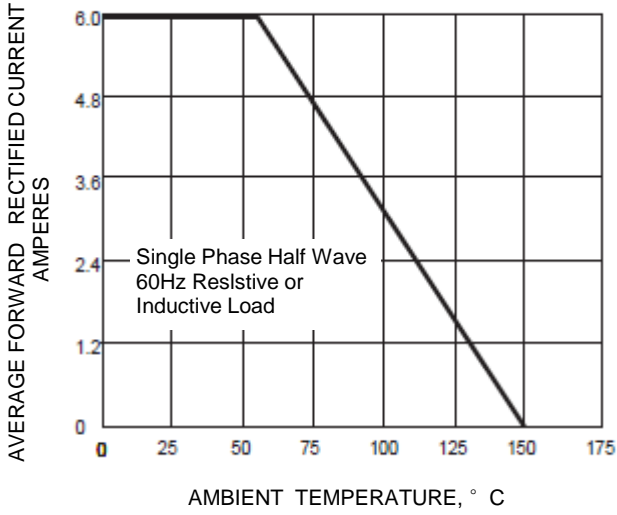


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

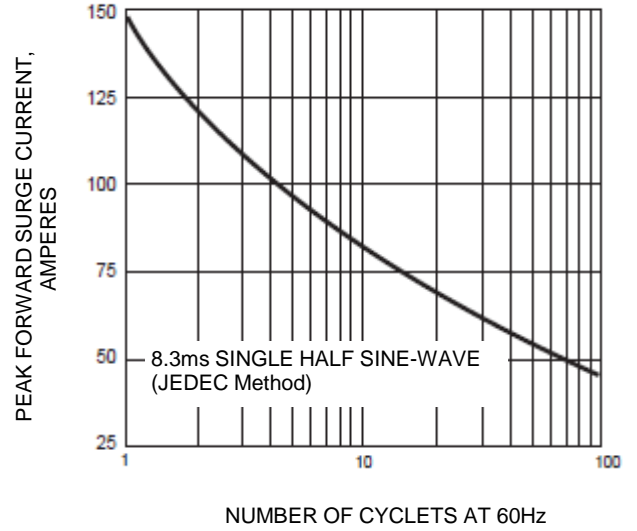


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

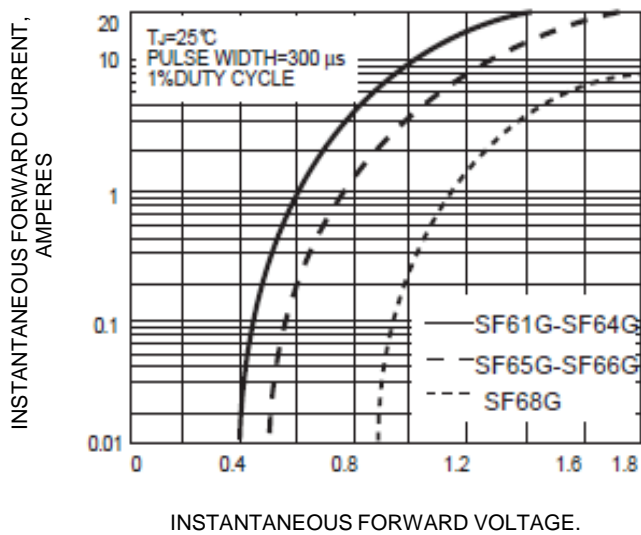
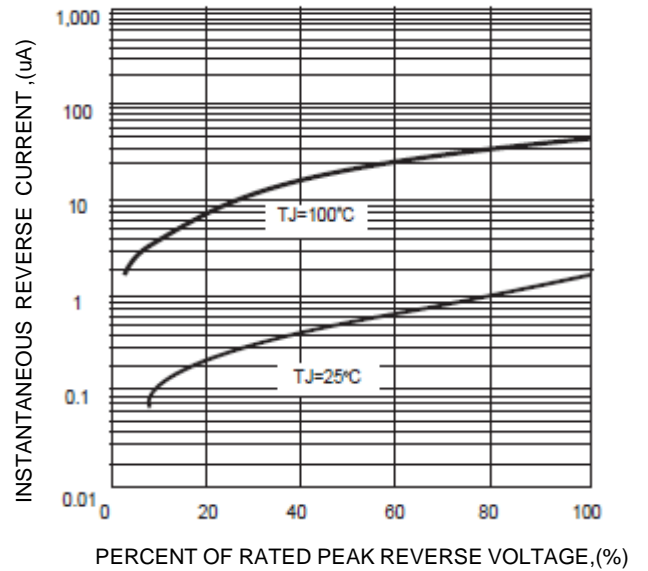


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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



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