



SUPER FAST GLASS PASSIVATED RECTIFIER

SF61G THRU SF66G

VOLTAGE RANGE

50 to 400 Volts

CURRENT

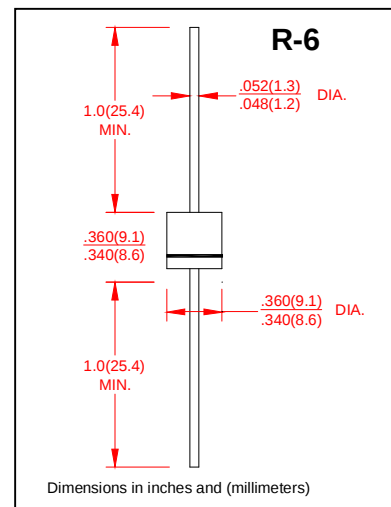
6.0 Ampere

FEATURES

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

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	SF 61G	SF 62G	SF 63G	SF 64G	SF 65G	SF 66G	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	150	200	300	400	Volts
Maximum RMS Voltage		V _{RMS}	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	100	200	300	400	Volts
Maximum Average Forward Rectified Current 0.375”(9.5mm) lead length at T _A =55℃		I _(AV)	6.0						Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	150						Amps
Maximum Instantaneous Forward Voltage at 6.0A		V _F	0.95			1.25			Volts
Maximum DC Reverse Current at rated DC blocking Voltage at	T _A = 25℃	I _R	5.0						μA
	T _A = 125℃		50						
Maximum Reverse Recovery Time Test conditions I _F = 0.5A, I _R = 1.0A, I _{RR} =0.25A		t _{rr}	35						nS
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		C _J	50			30			pF
Typical Thermal Resistance (NOTE 1)		R _{θJA}	30						℃/W
Operating Junction Temperature Range		T _J	(-55 to +150)						℃
Storage Temperature Range		T _{STG}	(-55 to +150)						℃

Notes:

1. Thermal Resistance from Junction to Ambient with 0.375" (9.5mm) lead length, PCB mounted.



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RATING AND CHARACTERISTIC CURVES SF61G THRU SF66G

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

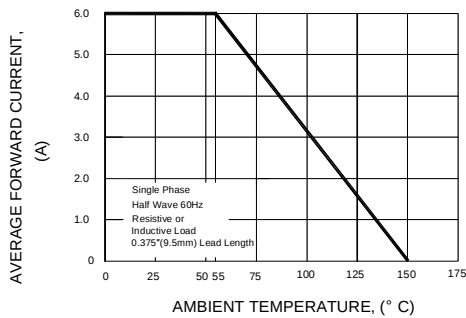


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

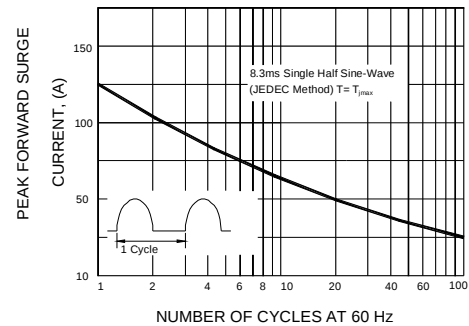


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

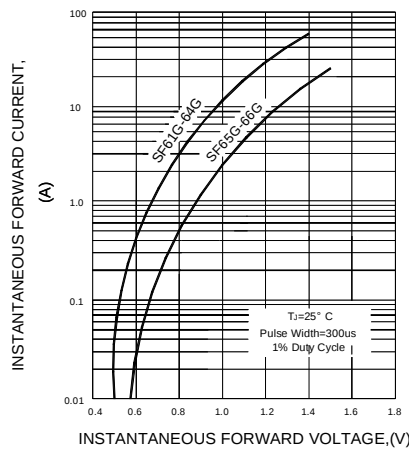


FIG.4-TYPICAL REVERSE CHARACTERISTICS

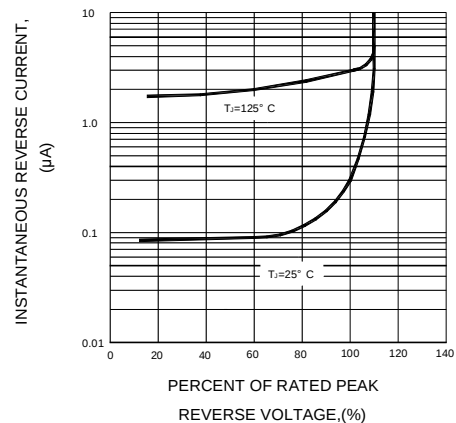


FIG.5-TYPICAL JUNCTION CAPACITANCE

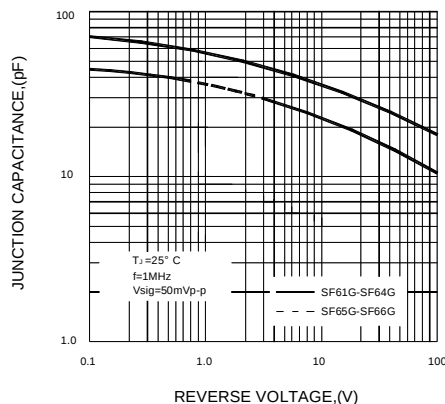


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

