RoHS Compliant



Features:

- High efficiency, low VF
- High current capability
- High reliability
- High surge current capability
- Low power loss
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- · Green compound with suffix "G" on packing code & prefix "G" on datecode

Specifications:

Mechanical Data:

Case	: Molded Plastic
Lead	: Pure Tin plated
Polarity	: Colour band denotes cathode
Weight	: 1.2 grams
Mounting Position	: Any

Maximum Ratings and Electrical Characteristics:

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

Characteristics	Symbol	Value	Units	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	150		
Maximum RMS Voltage	V _{RMS}	105	V	
Maximum DC Blocking Voltage	V _{DC}	150		
Maximum Average Forward Rectified Current 0.375 (9.5mm) Lead Length $@T_A = 55^{\circ}C$	I _{F(AV)}	6		
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150	A	
Maximum Instantaneous Forward Voltage @ 6A	V _F	0.975	V	



Glass Passivated Super Fast Rectifier 6AMP

Characteristics	Symbol	Value	Units	
Maximum DC Reverse Current at @ T_A =25°C Rated DC Blocking Voltage (Note 1) @ T_A =125°C	۱ _R	5 100	μA	
Maximum Reverse Recovery Time(Note 2)	Trr	35	nS	
Typical Junction capacitance (Note 3)	Cj	100	pF	
Typical Thermal Resistance (Note 4)	R _{θJA} R _{θJL}	40 5	°C/W	
Operating Temperature Range	TJ	-65 to +150	- °C	
Storage Temperature Range	T _{STG}	-65 to +150		

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

- 2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, I_{RR}=0.25A
- 3. Measured at 1MHz and Applied Reverse Voltage of 4V DC
- 4. Mount on Cu-Pad Size 16mm × 16mm on PCB

Ratings And Characteristic Curves:

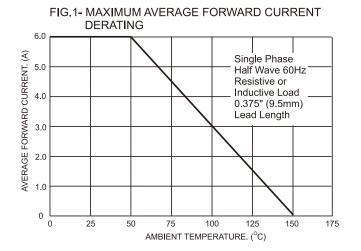
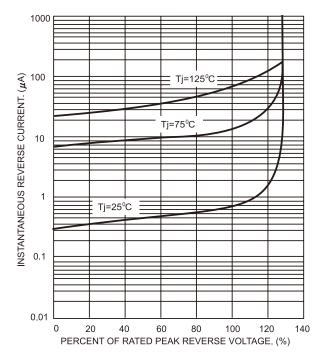
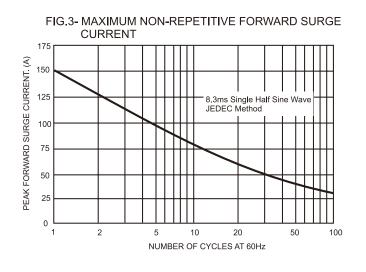


FIG.2- TYPICAL REVERSE CHARACTERISTICS

multicomp







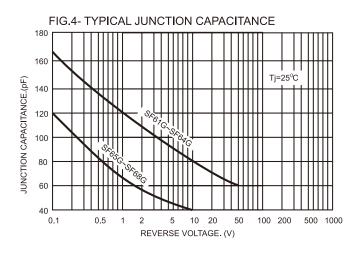


FIG.5- TYPICAL FORWARD CHARACTERISTICS

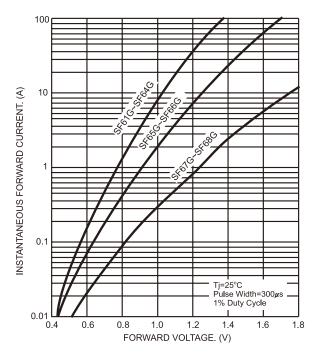
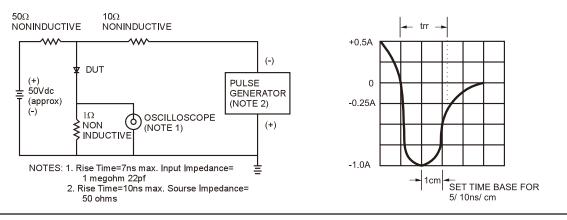
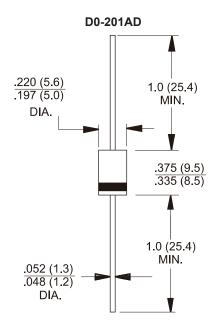


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





Glass Passivated Super Fast Rectifier 6AMP



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number	
Diode, Rectifier, S Fast, 6A, 150V, DO-201	SF63G	

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