

FR801G - FR807G

8.0A FAST RECOVERY GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

Case: Molded Plastic

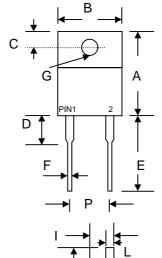
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

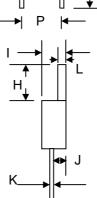
Polarity: See Diagram

Weight: 2.24 grams (approx.)

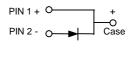
Mounting Position: Any

Marking: Type Number





TO-220A						
Dim	Min	Max				
Α	14.9 15.1					
В	_	10.5				
С	2.62	2.87				
D	3.56 4.06					
E	13.46	14.22				
F	0.68	0.94				
G	3.74 Ø	3.91 Ø				
Н	5.84	6.86				
I	4.44	4.70				
J	2.54 2.79					
K	0.35	0.64				
L	1.14	1.40				
Р	4.95	5.20				
All Dimensions in mm						



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	FR 801G	FR 802G	FR 803G	FR 804G	FR 805G	FR 806G	FR 807G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _C = 100°C		lo	8.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150					А		
Forward Voltage	@I _F = 8.0A	VFM	1.3					V		
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	lгм	5.0 100				μΑ			
Reverse Recovery Time (Note 1)		trr	150		250	500		nS		
Typical Junction Capacitance (Note 2)		Cj	100					pF		
Typical Thermal Resistance Junction to Case		RθJC	3.0						K/W	
Operating and Storage Temperature Range		Тj, Тsтg	-65 to +150					°C		

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

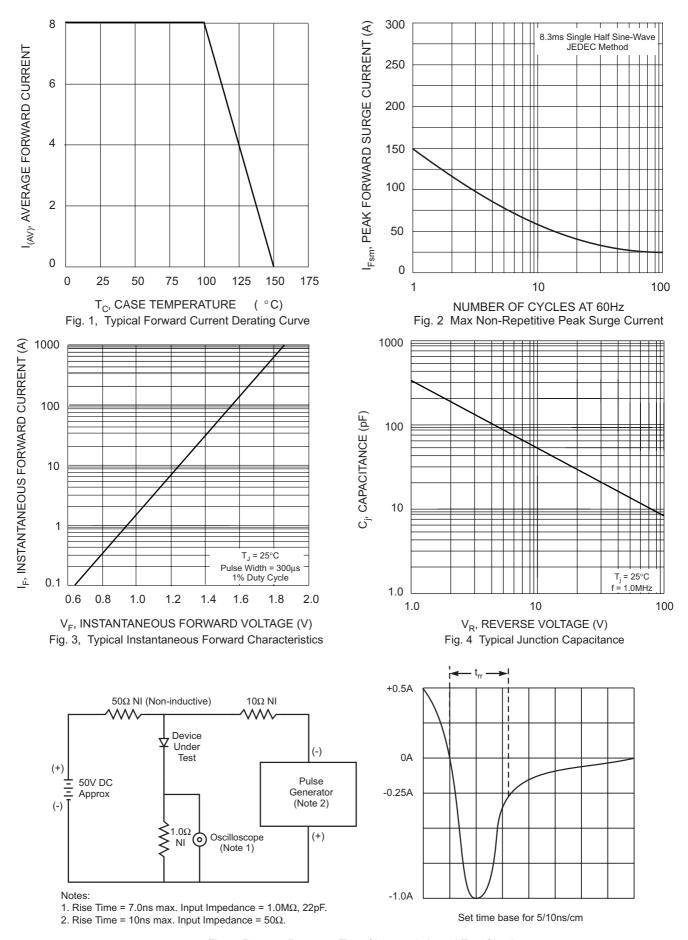


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
FR801G	TO-220A	50 Units/Tube
FR802G	TO-220A	50 Units/Tube
FR803G	TO-220A	50 Units/Tube
FR804G	TO-220A	50 Units/Tube
FR805G	TO-220A	50 Units/Tube
FR806G	TO-220A	50 Units/Tube
FR807G	TO-220A	50 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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