

FR1601G - FR1607G

16A 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

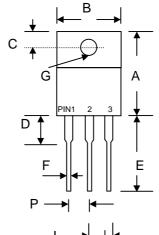
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

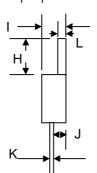
Polarity: See Diagram

• Weight: 2.24 grams (approx.)

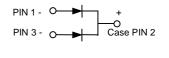
Mounting Position: Any

Marking: Type Number





TO-220						
Dim	Min	Max				
Α	14.9	15.1				
В	_	10.5				
С	2.62	2.87				
D	3.56	4.06				
Е	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	2.41	2.67				
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 1601G	FR 1602G	FR 1603G	FR 1604G	FR 1605G	FR 1606G	FR 1607G	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 = 105°C	lo	16					Α		
Non-Repetitive Peak Forward Surge Current 8.3m Single half sine-wave superimposed on rated load (JEDEC Method)		150					А		
Forward Voltage @I _F = 8.0A	VFM	1.3					V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	I IRM	5.0 100				μA			
Reverse Recovery Time (Note 1)	trr	150 250 500			00	nS			
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150					°C		

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

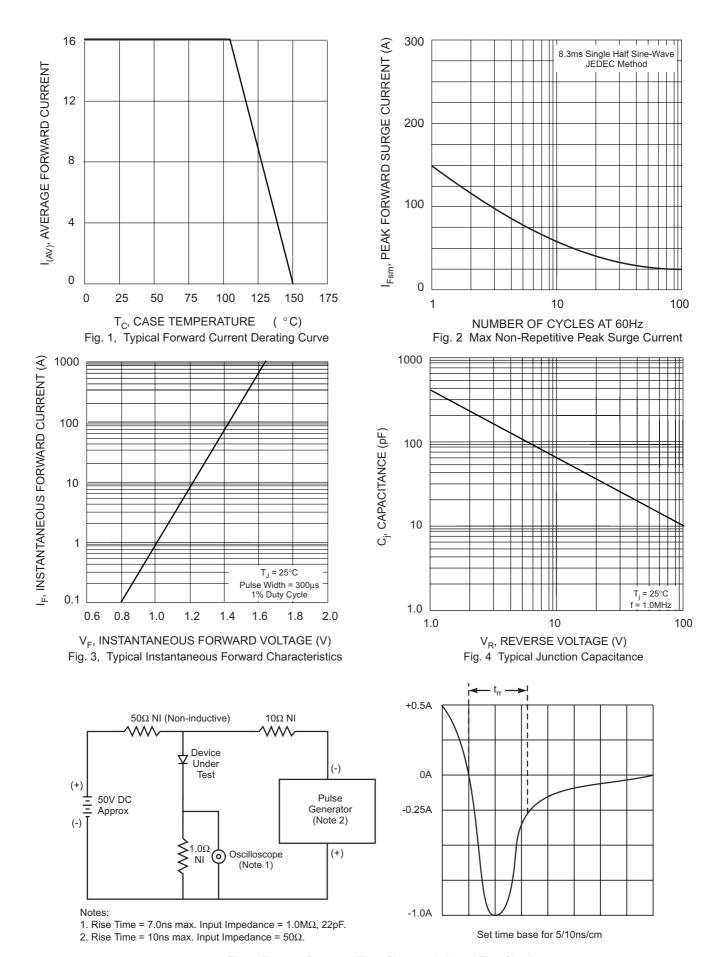


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
FR1601G	TO-220	50 Units/Tube
FR1602G	TO-220	50 Units/Tube
FR1603G	TO-220	50 Units/Tube
FR1604G	TO-220	50 Units/Tube
FR1605G	TO-220	50 Units/Tube
FR1606G	TO-220	50 Units/Tube
FR1607G	TO-220	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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We power your everyday.