

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

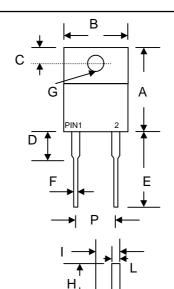
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

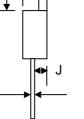
Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number



TO-220A				
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		
ı	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				



PIN 1 + O	+
PIN 2 - 0	O Case

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 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250					А		
Forward Voltage @I _F = 16A	VFM	1.3				V			
	IRM	5.0 100			μΑ				
Reverse Recovery Time (Note 1)	trr		1:	50		250	50	00	nS
Typical Thermal Resistance Junction to Case	R_{θ} JC	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.

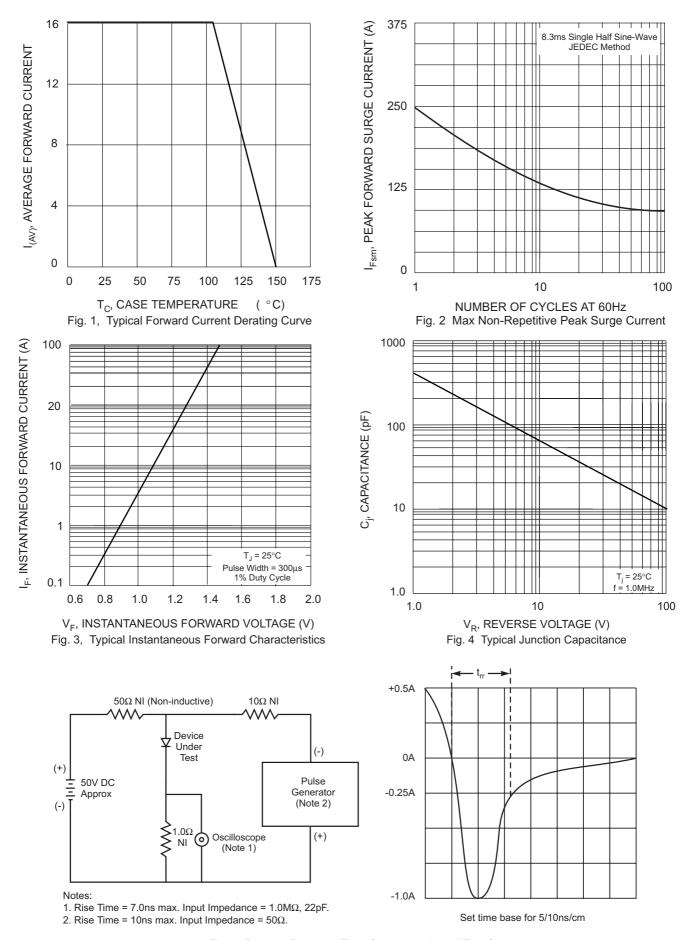


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

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