

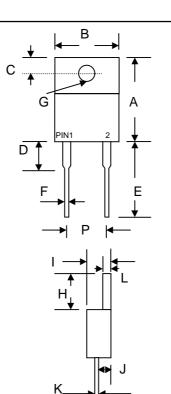
8.0A FAST RECOVERY GLASS PASSIVATED RECTIFIER

Features

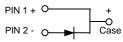
- Glass Passivated Die Construction
- Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

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			
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			
К	0.35	0.64			
L	1.14	1.40			
Р	4.95	5.20			
All Dimensions in mm					

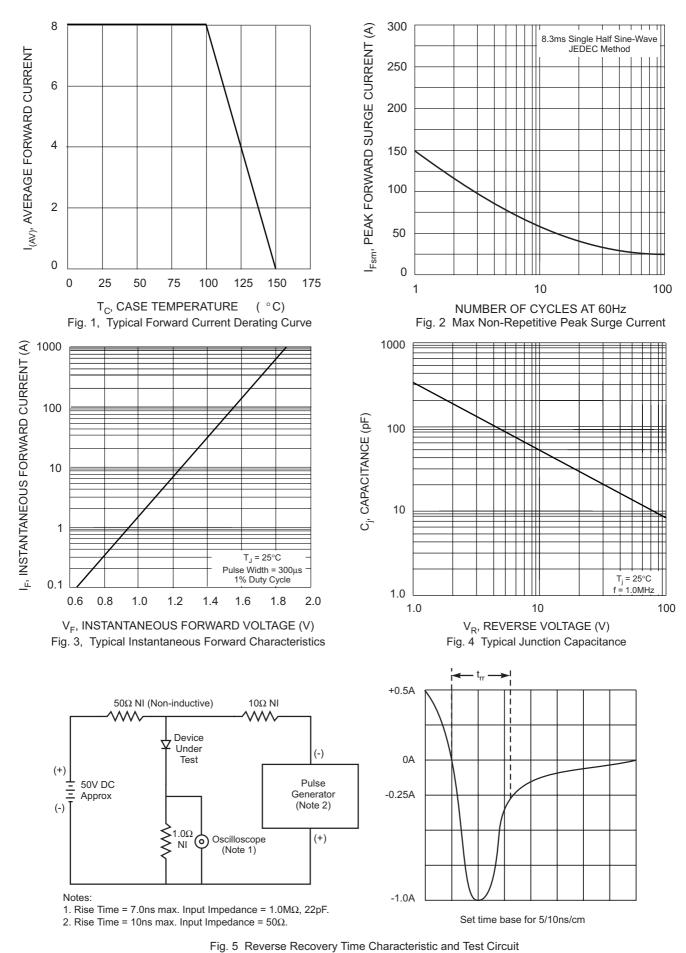


Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Symbol	FR 801G	FR 802G	FR 803G	FR 804G	FR 805G	FR 806G	FR 807G	Unit
Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
VR(RMS)	35	70	140	280	420	560	700	V
00°C Io	8.0				А			
	150					A		
8.0A VFM	1.3				V			
IRM	5.0 100					μA		
trr	150 250			250	500		nS	
Cj	100					pF		
R	3.0					K/W		
Тj, Tsтg	-65 to +150					°C		
	VRRM VRWM VR VR VR VR VR M VR VR M VR VR VR VR VR VR VR VR VR VR VR VR VR	Symbol 801G VRRM VRWM VR 50 VR(RMS) 50 VR(RMS) 35 00°C Io Io 1 8.0A VFM 25°C IRM 125°C IRM Ci Ci R θ JC R θ JC	Symbol 801G 802G VRRM VRWM VRWM VR 50 100 VR(RMS) 35 70 00°C Io	Symbol 801G 802G 803G $VRRM$ 50 100 200 $VRWM$ 50 100 200 VR 35 70 140 $00^{\circ}C$ Io	Symbol 801G 802G 803G 804G V_{RRM} 50 100 200 400 $V_{R}WM$ 50 100 200 400 $V_{R}(RMS)$ 35 70 140 280 $00^{\circ}C$ Io	Symbol 801G 802G 803G 804G 805G VRRM VRWM VR 50 100 200 400 600 VR(RMS) 35 70 140 280 420 00°C Io $$	Symbol 801G 802G 803G 804G 805G 806G VRRM VRWM VR 50 100 200 400 600 800 VR(RMS) 35 70 140 280 420 560 00°C Io 55 70 140 280 420 560 00°C Io 55 5.0 150 5.0 150 5.0 8.0A VFM 55 5.0 100 50 5.0 $125°C$ IRM 55 5.0 100 50 50 $125°C$ IRM 50 150 50 50 $125°C$ IRM 50 50 50 50 Cj Cj 50 50 50 50 $R eta JC$ $R eta JC$ 802 300 8036 8056	Symbol 801G 802G 803G 804G 805G 806G 807G VRRM VRWM VRWM VR 50 100 200 400 600 800 1000 VR(RMS) 35 70 140 280 420 560 700 00°C Io 55 70 140 280 420 560 700 00°C Io 55 70 140 280 420 560 700 00°C Io 55 50 50 50 50 50 50 8.0A VFM 55 5.0 150 50 50 50 8.0A VFM 55 5.0 100 50 50 25°C IRM 55 5.0 100 50 50 125°C Irr 50 50 50 50 50 Ci Ci 50 50 50

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.



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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