UF800F-G - UF808F-G

SEMICONDUCTOR

8.0A ISOLATION ULTRAFAST GLASS PASSIVATED RECTIFIER

Data Sheet 4831, Rev. -

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Features

- Glass Passivated Die Construction
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- Green Products in Compliance with the RoHS Directive

Mechanical Data

Case: ITO-220A Full Molded Plastic

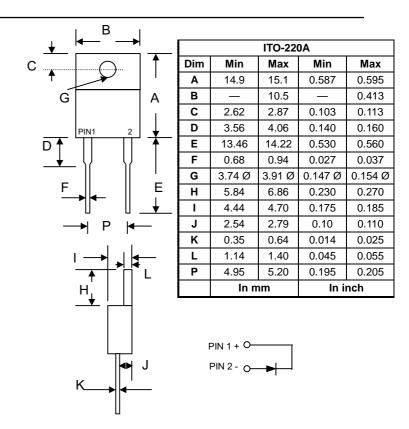
Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number



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	UF800F-G	UF801F-G	UF802F-G	UF803F-G	UF804F-G	UF806F-G	UF808F-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	600	800	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	٧
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	125						Α	
Forward Voltage @I _F = 8.0A	VFM	1.0			1.3		1.7		V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	IRM	10 500						μА	
Reverse Recovery Time (Note 1)	trr	50 100					nS		
Typical Junction Capacitance (Note 2)	Cj	80 50					pF		
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150						°C	

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

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

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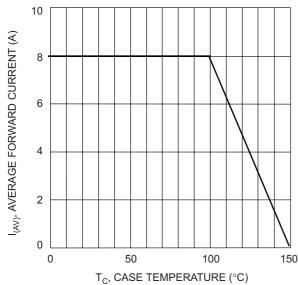
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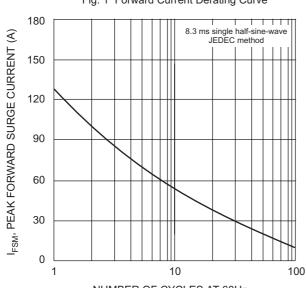
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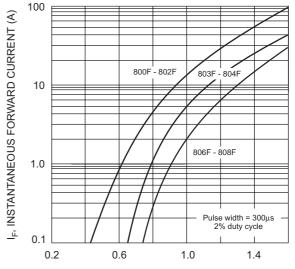
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T_C, CASE TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60Hz Fig. 3 Max Non-Repetitive Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics

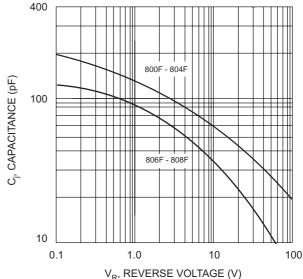


Fig. 4 Typical Junction Capacitance

SENSITRON SEMICONDUCTOR

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