UF800F - UF808F

Dim

SEMICONDUCTOR

8.0A ISOLATION ULTRAFAST GLASS PASSIVATED RECTIFIER

Data Sheet 2646, Rev. -

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

Mechanical Data

Case: ITO-220A Full Molded Plastic

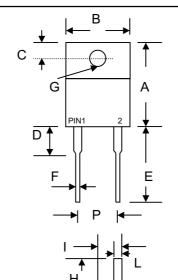
Terminals: Plated Leads Solderable per

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

Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number

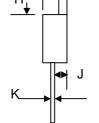


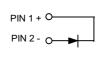
Α	14.9	15.1					
В	_	10.5					
С	2.62	2.87					
D	3.56	4.06					
E	13.46	14.22					
F	0.68	0.94					
G	3.74Ø	3.91Ø					
Н	5.84	6.86					
I	4.44	4.70					
7	2.54	2.79					
K	0.35	0.64					
L	1.14	1.40					
Р	4.95	5.20					
All Dimensions in mm							

ITO-220A

Max

Min





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	UF801F	UF802F	UF803F	UF804F	UF806F	UF808F	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	V
Average Rectified Output Current @	lo	8.0							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	125							Α
Forward Voltage)I _F = 8.0A	VFM	1.0			1.3		1.7		٧
	T _A = 25°C T _A = 125°C	lгм	10 500						μΑ	
Reverse Recovery Time (Note 1)		trr	50 100					nS		
Typical Junction Capacitance (Note 2)		Cj	80 50					pF		
Operating and Storage Temperature Range		Тj, Tsтg	-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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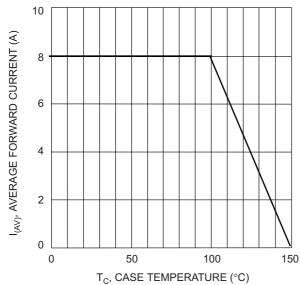


Fig. 1 Forward Current Derating Curve

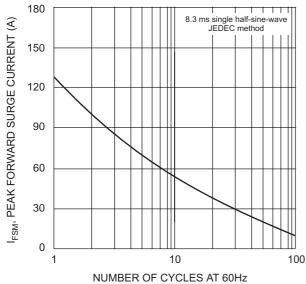
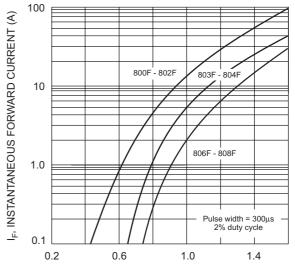
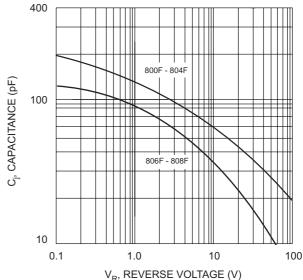


Fig. 3 Max Non-Repetitive Surge Current



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



V_R, REVERSE VOLTAGE (V)
Fig. 4 Typical Junction Capacitance



TECHNICAL DATA

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