UF1000F - UF1008F

SEMICONDUCTOR

10A ISOLATION ULTRAFAST GLASS PASSIVATED RECTIFIER

Data Sheet 2648, 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

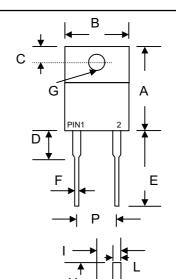
Terminals: Plated Leads Solderable per

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

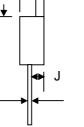
Weight: 2.24 grams (approx.)

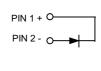
Mounting Position: Any

Marking: Type Number



ITO-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	3.74Ø	3.91Ø						
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	4.95	5.20						
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	UF 1000F	UF 1001F	UF 1002F	UF 1003F	UF 1004F	UF 1006F	UF 1008F	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 @T _C = 100°C		lo	10							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150							Α
Forward Voltage	@I _F = 10A	VFM	1.0			1.3		1.7		V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	lгм	10 500						μA	
Reverse Recovery Time (Note 1)		trr	50 100					nS		
Typical Junction Capacitance (Note 2)		Cj	80 50						0	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.

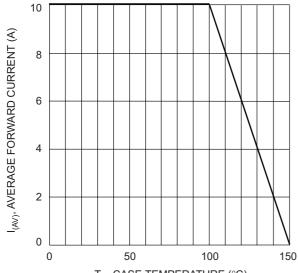
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

- 221 West Industry Court ☐ Deer Park, NY 11729-4681 ☐ (631) 586-7600 FAX (631) 242-9798
 - World Wide Web Site http://www.sensitron.com E-Mail Address sales@sensitron.com •

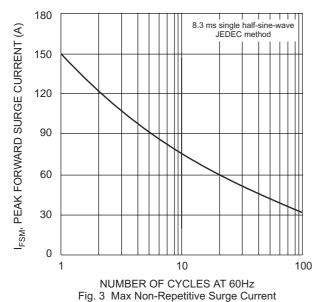
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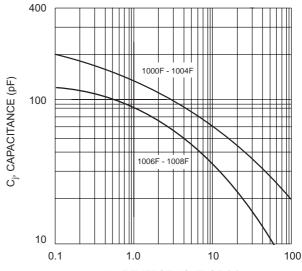


T_C, CASE TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve



100 CONTROL 100 1000F - 1002F 1003F - 1004F 1006F - 1008F 1006F - 1006F - 1008F 1006F - 1006F - 1006F - 1006F - 1008F 1006F - 1006F

 $V_{\rm F}$, 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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