



8.0A GLASS PASSIVATED ULTRAFAST RECTIFIER



Features

- Glass Passivated Die Construction
- Ultrafast 50nS and 100nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

Case: ITO-220A, Full Molded Plastic

Terminals: Plated Leads Solderable per

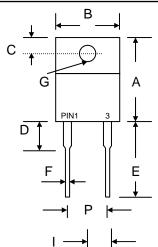
MIL-STD-202, Method 208 Polarity: See Diagram

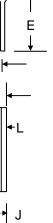
Weight: 1.9 grams (approx.)

Mounting Position: Any

Mounting Torque: 0.6 N.m Max.

Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4





ITO-220A						
Dim	Min	Max				
Α	14.60	15.40				
В	9.70	10.30				
С	2.55	2.85				
D	1	4.16				
E	13.00	13.80				
F	0.30	0.90				
G	3.00 Ø	3.50 Ø				
Н	6.30	6.90				
I	4.20	4.80				
J	2.50	2.90				
K	0.36	0.80				
L	2.60	3.30				
Р	4.83	5.33				
All Dimensions in mm						



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

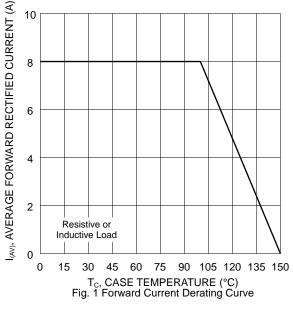
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

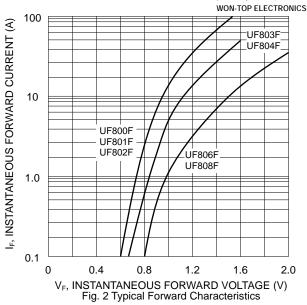
Characteristic	Symbol	UF800F	UF801F	UF802F	UF803F	UF804F	UF806F	UF808F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	600	800	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	V
Average Rectified Output Current @T _C = 100°C	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 $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IDM				10 500				μΑ
Reverse Recovery Time (Note 1)	trr			50			10	00	nS
Typical Junction Capacitance (Note 2)	Сı	80 50				0	pF		
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case	R JA R JC	75 5.0						°C/W	
RMS Isolation Voltage, t = 1 min	Viso	1500					٧		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C		

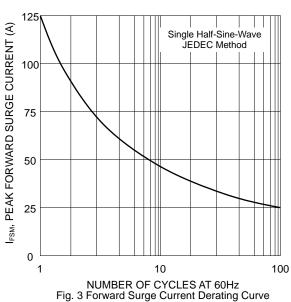
Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

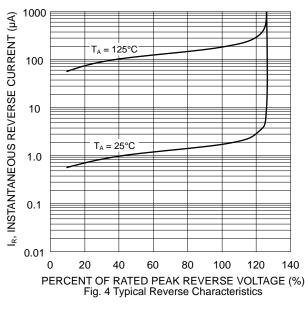
UF800F - UF808F

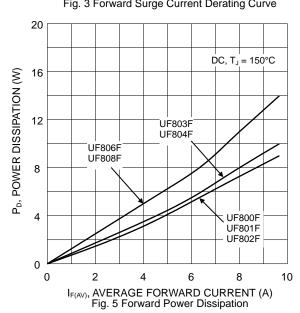


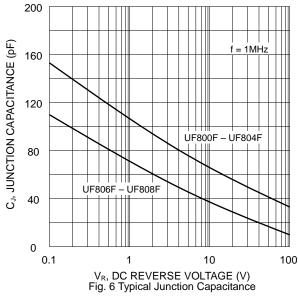






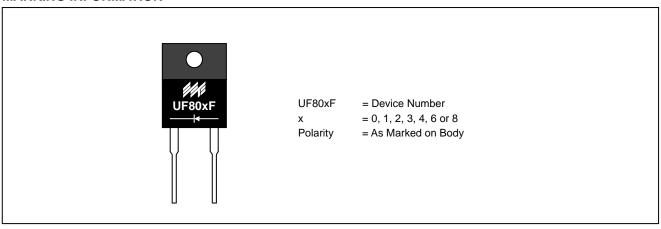








MARKING INFORMATION



PACKAGING INFORMATION

BULK

Tube Size L x W x H (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

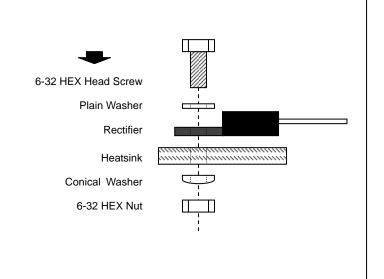
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precautions should be made in mounting procedure.

A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause crack on device package.

A layer of thermal grease or thermal pad in the interface will be considerably helpful for heat dissipation.





ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
UF800F	ITO-220A	50 Units/Tube
UF801F	ITO-220A	50 Units/Tube
UF802F	ITO-220A	50 Units/Tube
UF803F	ITO-220A	50 Units/Tube
UF804F	ITO-220A	50 Units/Tube
UF806F	ITO-220A	50 Units/Tube
UF808F	ITO-220A	50 Units/Tube

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" 1.
- 2. suffix to part number above. For example, UF800F-LF.

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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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