

ER1000F - ER1006F



10A GLASS PASSIVATED SUPERFAST RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Switching
- Low Forward Voltage Drop
- 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

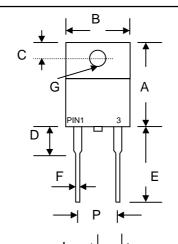
Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

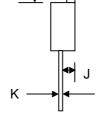
Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.

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



IIO-ZZOA						
Dim	Min	Max				
Α	14.60	15.40				
В	9.70	10.30				
C	2.55	2.85				
D	3.56	4.16				
E	13.00	13.80				
F	0.30	0.90				
G	3.00 Ø	3.50 Ø				
Н	6.30	6.90				
ı	4.20	4.80				
J	2.50	2.90				
K	0.36	0.80				
L	2.90	3.30				
Р	4.83	5.33				
All Dimensions in mm						

ITO-220A



PIN 1 +	О
PIN 3 -	○

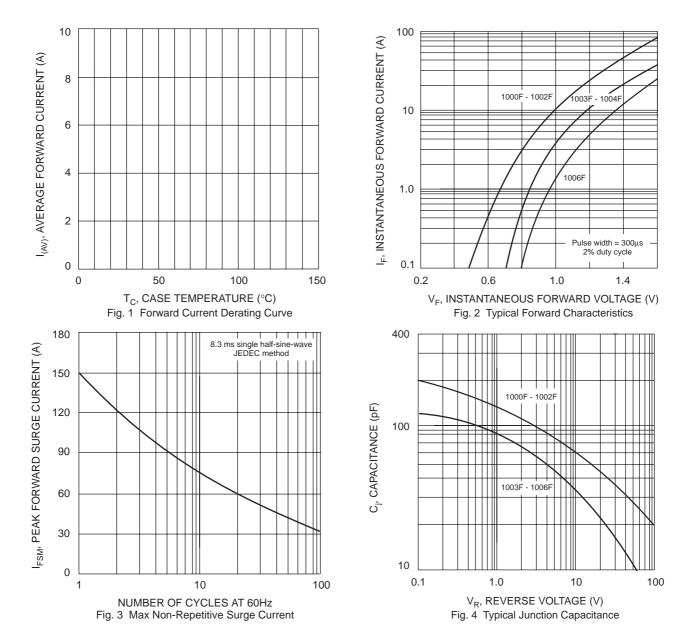
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

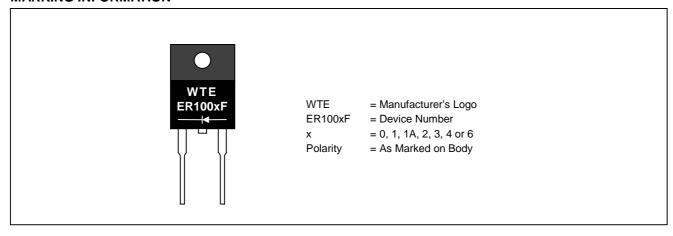
Characteristic		Symbol	ER 1000F	ER 1001F	ER 1001AF	ER 1002F	ER 1003F	ER 1004F	ER 1006F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	150	200	300	400	600	V
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	420	٧
Average Rectified Output Current	@T _C = 105°C	lo				10				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150					А		
Forward Voltage	@I _F = 10A	VFM	0.95			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		3	35			50		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.



MARKING INFORMATION



PACKAGING INFORMATION

BULK

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

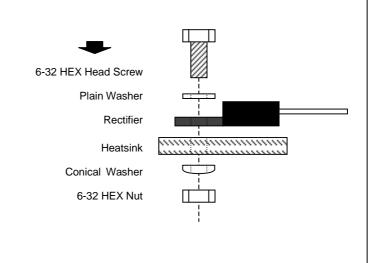
Note: 1. Anti-static tube, water clear color.

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
ER1000F	ITO-220A	50 Units/Tube
ER1001F	ITO-220A	50 Units/Tube
ER1001AF	ITO-220A	50 Units/Tube
ER1002F	ITO-220A	50 Units/Tube
ER1003F	ITO-220A	50 Units/Tube
ER1004F	ITO-220A	50 Units/Tube
ER1006F	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" suffix to part number above. For example, ER1000F-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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