

ER1000F - ER1006F

10A ISOLATION SUPER-FAST GLASS PASSIVATED RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Switching for High Efficiency
- 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

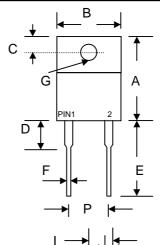
MIL-STD-202, Method 208

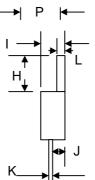
Polarity: See Diagram

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	3.74 Ø	3.91 Ø				
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						

PIN 2 - O

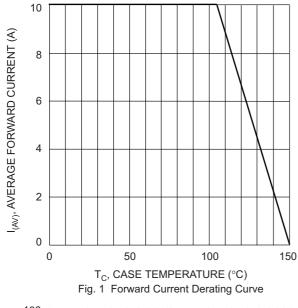
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

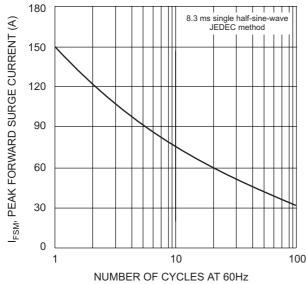
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	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	V
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					Α		
Forward Voltage @I _F = 10A	VFM	0.95 1.3 1.7				1.7	V		
	IRM	10 500				μΑ			
Reverse Recovery Time (Note 1)	trr	35			50	nS			
Typical Junction Capacitance (Note 2)	Cj	70 50				pF			
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150					°C		

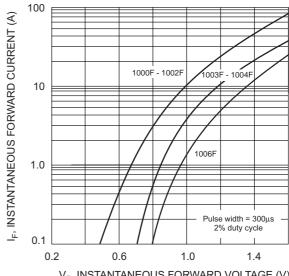
Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

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





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



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

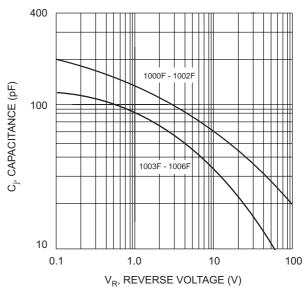


Fig. 4 Typical Junction Capacitance

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.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

Won-Top Electronics Co., Ltd.
No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

