

# **ER800F - ER806F**

### 8.0A 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

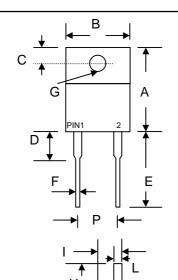
MIL-STD-202, Method 208

Polarity: See Diagram

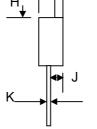
Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number



ITO-220A				
Dim	Min	Max		
Α	14.9 15.1			
В		10.5		
C	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		
H	5.84	6.86		
-	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				



PIN 1+	O
PIN 2 -	

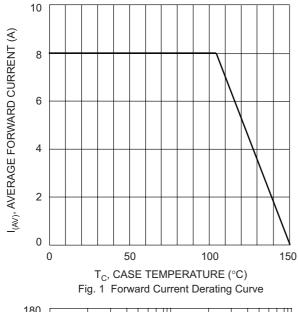
## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic		Symbol	ER 800F	ER 801F	ER 801AF	ER 802F	ER 803F	ER 804F	ER 806F	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 <sub>C</sub> = 105°C	lo				8.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	125					А		
Forward Voltage	@I <sub>F</sub> = 8.0A	VFM	0.95 1.3 1.7			1.7	V			
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 100°C	IRM	10 400			μΑ				
Reverse Recovery Time (Note 1)		trr		3	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.



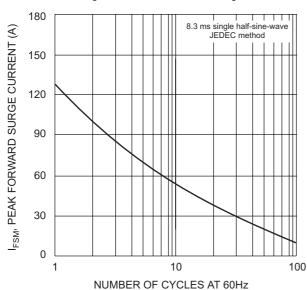
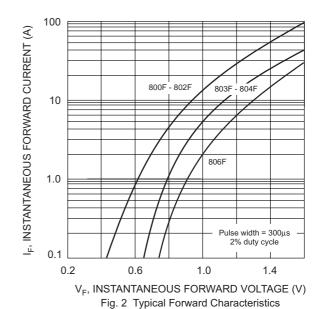
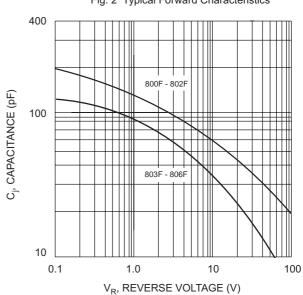


Fig. 3 Max Non-Repetitive Surge Current





#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
ER800F	ITO-220A	50 Units/Tube
ER801F	ITO-220A	50 Units/Tube
ER801AF	ITO-220A	50 Units/Tube
ER802F	ITO-220A	50 Units/Tube
ER803F	ITO-220A	50 Units/Tube
ER804F	ITO-220A	50 Units/Tube
ER806F	ITO-220A	50 Units/Tube

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

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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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