



8.0A GLASS PASSIVATED SUPERFAST RECTIFIER



Features

- Glass Passivated Die Construction
- Superfast 35nS and 50nS 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: TO-220A, Molded Plastic

Terminals: Plated Leads Solderable per

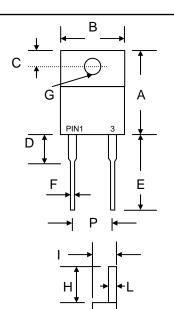
MIL-STD-202, Method 208 Polarity: See Diagram

Weight: 1.9 grams (approx.)

Mounting Position: Any

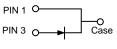
Mounting Torque: 0.6 N.m Max.

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



TO-220A				
Dim	Min	Max		
Α	13.90	15.90		
В	9.80	10.70		
С	2.54	3.43		
D	3.56	4.56		
E	12.70	14.73		
F	0.51	0.96		
G	3.55 Ø	4.09 Ø		
Н	5.75	6.85		
ı	4.16	5.00		
J	2.03	2.92		
K	0.30	0.65		
L	1.14	1.40		
Р	4.83	5.33		
All Dimensions in mm				





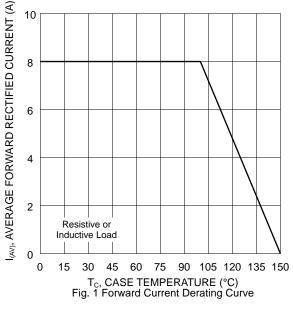
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

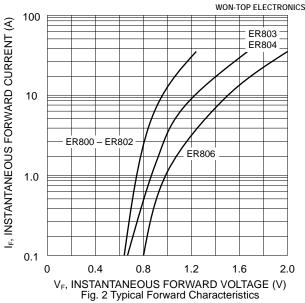
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

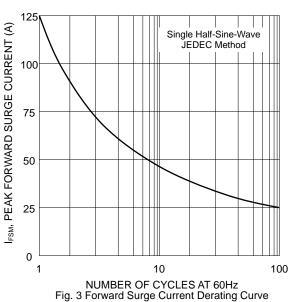
Characteristic	Symbol	ER 800	ER 801	ER 801A	ER 802	ER 803	ER 804	ER 806	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	600	٧
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current @T _C = 100°C	lo	8.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	125				А			
Forward Voltage @I _F = 8.0A	VFM	0.95 1.3 1.7			1.7	V			
	lгм	10 500				μΑ			
Reverse Recovery Time (Note 1)	trr	35 50					nS		
Typical Junction Capacitance (Note 2)	Cı	85 50					pF		
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case	R JA R JC	73 3.0					°C/W		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150						°C	

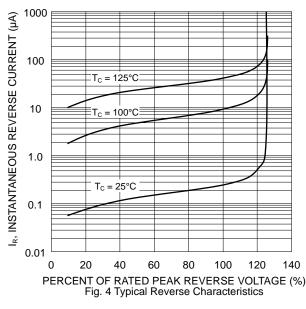
Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

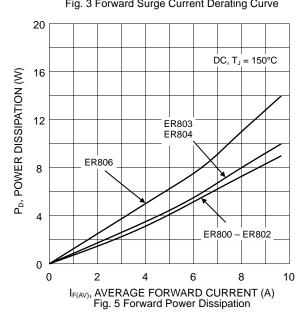


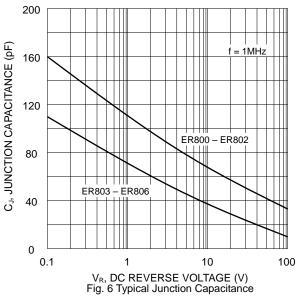






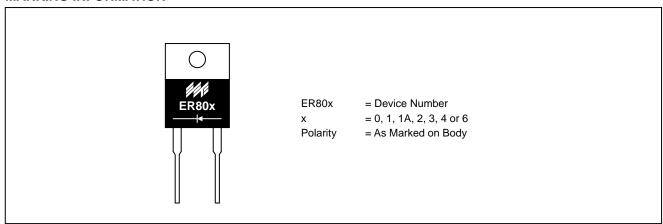








MARKING INFORMATION



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

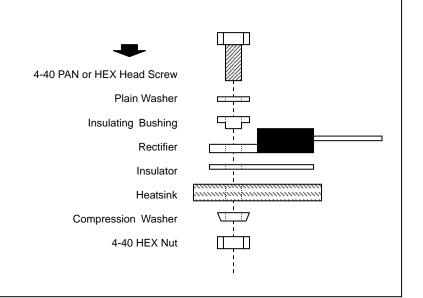
Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

Recommended isolated mounting when screw is at heatsink potential. 4-40 hardware is used.

Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package. The insulating bushing inside the mounting hole will insure the screw threads do not contact the metal base.

The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation.





ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
ER800	TO-220A	50 Units/Tube
ER801	TO-220A	50 Units/Tube
ER801A	TO-220A	50 Units/Tube
ER802	TO-220A	50 Units/Tube
ER803	TO-220A	50 Units/Tube
ER804	TO-220A	50 Units/Tube
ER806	TO-220A	50 Units/Tube

- Shipping quantity given is for minimum packing quantity only. For minimum 1. order quantity, please consult the Sales Department.
- 2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, ER800-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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