

ER1000 - ER1006

10A 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: TO-220A Molded Plastic

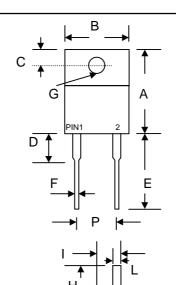
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number



TO-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				
ı	4.44	4.70				
۲	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 + 0 +
PIN 2 - O Case

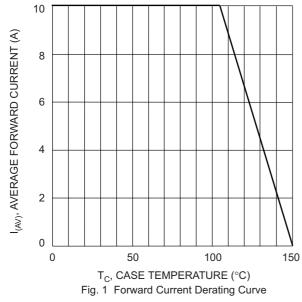
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

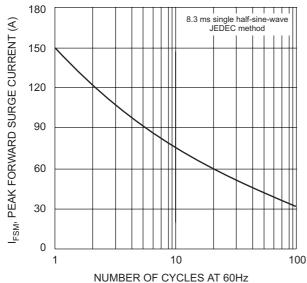
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	ER 1000	ER 1001	ER 1001A	ER 1002	ER 1003	ER 1004	ER 1006	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)	Ігѕм	150					А		
Forward Voltage @I _F = 10A	VFM	0.95 1.3 1.7				1.7	V		
Peak Reverse Current	lкм	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, Тsтg	-65 to +150					°C		

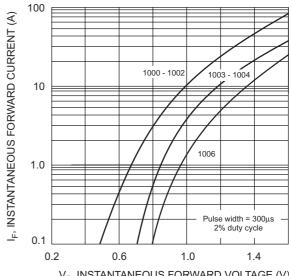
Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

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

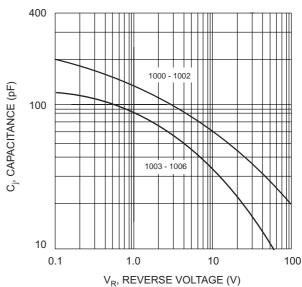


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
ER1000	TO-220A	50 Units/Tube
ER1001	TO-220A	50 Units/Tube
ER1001A	TO-220A	50 Units/Tube
ER1002	TO-220A	50 Units/Tube
ER1003	TO-220A	50 Units/Tube
ER1004	TO-220A	50 Units/Tube
ER1006	TO-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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