



# 8.0A GLASS PASSIVATED SUPERFAST RECTIFIER



### **Features**

- Planar Die Construction
- Superfast 28nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- Soft Recovery Characteristics
- 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

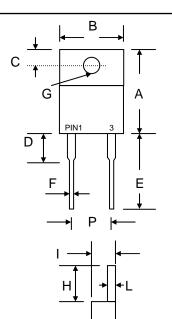
Polarity: See Diagram

Weight: 1.9 grams (approx.)

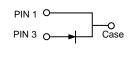
Mounting Position: Any

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

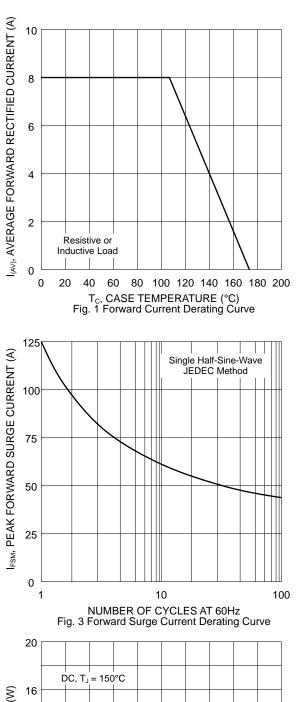
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

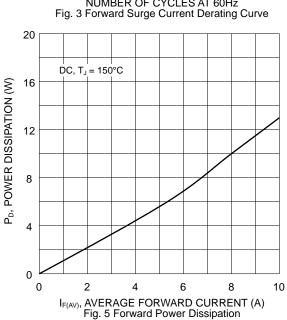
Characteristic		Symbol	MUR860	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	600	V
RMS Reverse Voltage		VR(RMS)	420	V
Average Rectified Output Current	@T <sub>C</sub> = 105°C	lo	8.0	А
Non-Repetitive Peak Forward Surge Curren Sine-Wave Superimposed on Rated Load (	IFSM	125	А	
Forward Voltage	@I <sub>F</sub> = 8.0A	VFM	1.5	V
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>C</sub> = 25°C @T <sub>C</sub> = 100°C	IRM	10 500	μΑ
Reverse Recovery Time (Note 1)		trr	28	nS
Typical Junction Capacitance (Note 2)		Сл	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	-65 to +175	°C

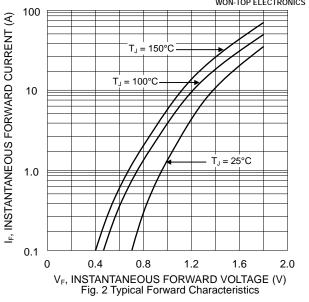
Note: 1. Measured with  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .

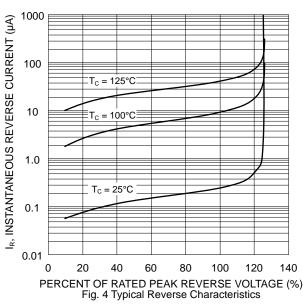
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

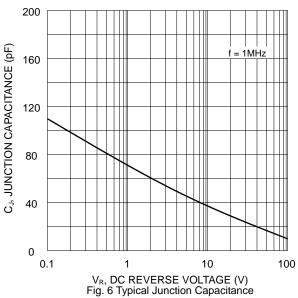






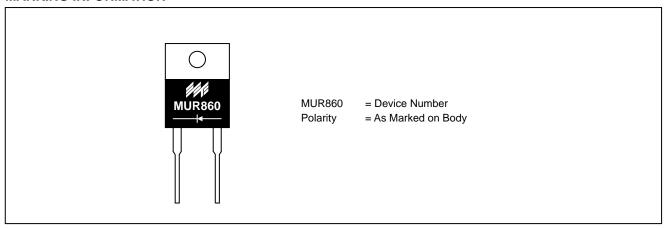








### **MARKING INFORMATION**



## **PACKAGING INFORMATION**

#### **BULK**

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

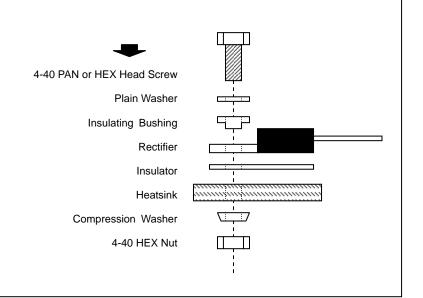
Note: 1. Anti-static tube, water clear color.

### 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	
MUR860	TO-220A	50 Units/Tube	

- Shipping quantity given is for minimum packing quantity only. For minimum 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, MUR860-LF.

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