

# **MUR860**

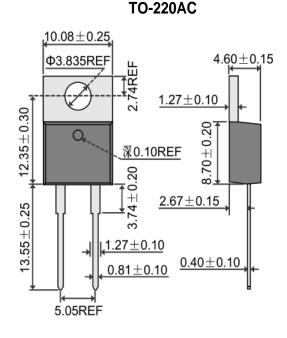
### 8.0A GLASS PASSIVATED SUPERFAST RECTIFIER

# Features

- Fred Chip Planar 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



PIN 1 O PIN 3 O Case

# Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

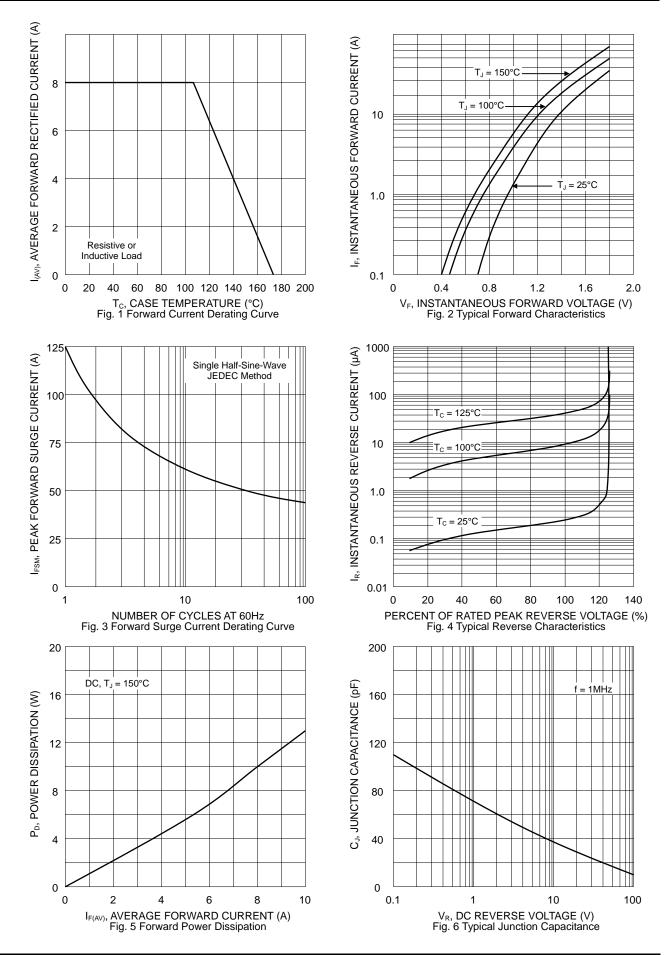
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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
Ion-Repetitive Peak Forward Surge Current 8.3ms Single Half ine-Wave Superimposed on Rated Load (JEDEC Method)		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	μA
Reverse Recovery Time (Note 1)		trr	28	nS
Typical Junction Capacitance (Note 2)		CJ	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	Э	TJ, TSTG	-65 to +175	°C

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

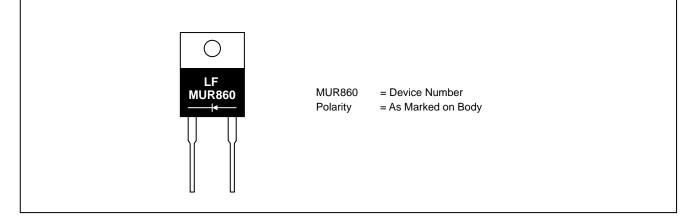
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.







#### MARKING INFORMATION



## PACKAGING INFORMATION

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weigh
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	558 x 150 x 40	1,000	570 x 235 x 170	5,000	11.85

#### RECOMMENDED SCREW MOUNTING ARRANGEMENT

