

Technical Data Data Sheet N0277, Rev. - **Green Products** 

# MUR860AX ULTRAFAST PLASTIC RECTIFIER

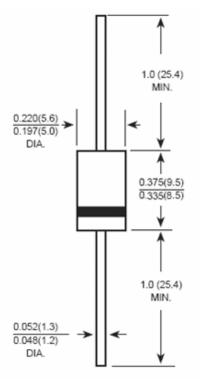
### Applications:

- Switching Power Supply
- Power Switching Circuits
- General Purpose

#### Features:

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Super Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

## Mechanical Dimensions: In Inches / mm



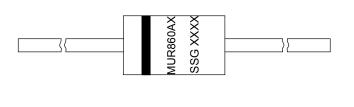
# **DO-201AD**

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FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •



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#### **Marking Diagram:**



Where XXXXX is YYWWL

MUR	= Device Type
8	= Forward Current (8A)
60	= Reverse Voltage (600V)
AX	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

# **Ordering Information:**

Device	Package	Shipping
MUR860AX	DO-201AD	1250pcs / tape
	(Pb-Free)	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



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#### 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%.

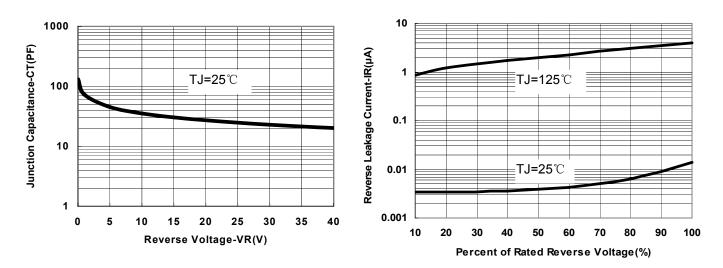
Characteristic	Symbol	MUR860AX	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	600	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	420	V
Average Rectified Output Current @ $T_A = 105^{\circ}C$	lo	8.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	110	А
Forward Voltage (per element) @I <sub>F</sub> = 8.0A	V <sub>FM</sub>	1.5	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I <sub>RM</sub>	5.0 50	μA
Maximum Reverse Recovery Time (Note 1)	Trr	50	ns
Max. Voltage Rate of Change	dv/dt	10,000	V/µs
Typical Thermal Resistance Junction to Ambient (Note 2)	R <sub>eJA</sub>	25	K/W
Max. Junction Temperature	TJ	-65 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150	°C
Approximate Weight	wt	1.02	g
Case Style		DO-201AD	•

Note: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A 2. Mount on Cu-Pad Size 16mm×16mm on P.C.B.



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**Fig.2-Typical Reverse Characteristics** 

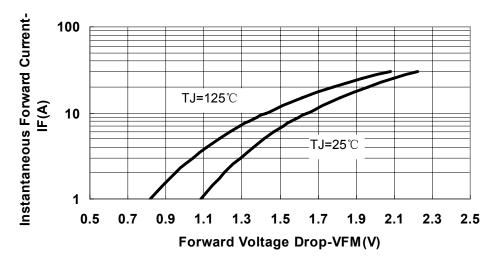


Fig.3-Typical Forward Voltage Drop Characteristics



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