

Technical Data Data Sheet N0260, Rev. -

MUR330AX

Green Products

MUR330AX ULTRAFAST PLASTIC RECTIFIER

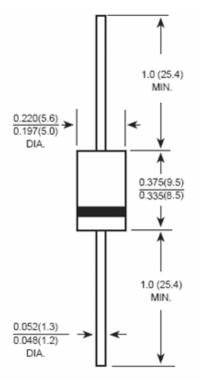
Applications:

- 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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Marking Diagram:



Where XXXXX is YYWWL

MUR	= Device Type
3	= Forward Current (3A)
30	= Reverse Voltage (300V)
AX	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	Package	Shipping
MUR330AX	DO-201AD (Pb-Free)	1250pcs / tape

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

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Repetitive Peak Inverse Voltage	V_{RWM}	-	300	V
Average Rectified Output Current	lo	50% duty cycle @Tc=75°C, rectangular wave form	3	А
One Cycle Non-Repetitive Surge Forward Current	I _{FSM}	8.3ms, Half Sine pulse	100	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	VF	@ I _F =3A, Pulse, T _J = 25 °C	1.25	V
	I _{R1}	$@V_R = rated V_R$	5	μA
Reverse Current*		T _J = 25 °C		
	I _{R2}	$@V_R = rated V_R$	100	μA
		T _J = 100 °C		
Reverse Recovery Time	t _{rr}	I_F =0.5A, I_R =1A,and I_{RR} =0.25A	35	ns

 $^{*}\,$ Pulse width < 300 $\mu s,\,$ duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal	R _{0JC}	DC operation	8	°C/W
Resistance Junction to Case Approximate Weight	wt	-	1.02	g
Case Style		DO-201AD		

*1 Alumina Substrate Mounted (Soldering Lands=2×3.5mm, Both Sides)



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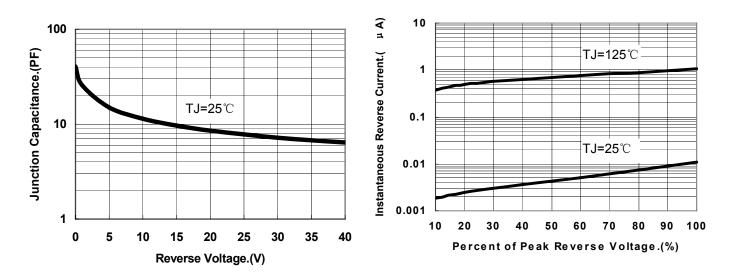


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

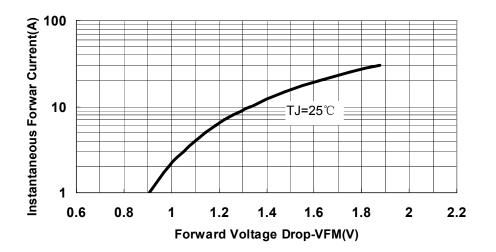


Fig.3-Typical Instantaneous Forward Voltage Characteristics



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