

Technical Data Data Sheet N0259, Rev. -

MUR340AX

Green Products

MUR340AX ULTRAFAST PLASTIC RECTIFIER

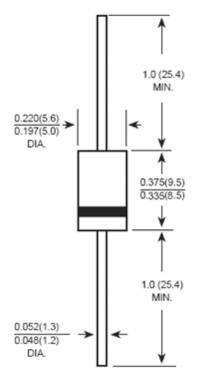
Applications:

- 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)
40	= Reverse Voltage (400V)
AX	= Configuration
SSG	= SSG
YY	= Year
WW	= Week
L	= Lot Number

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

Ordering Information:

Device	Package	Shipping
MUR340AX	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}	-	400	V
Average Forward Current	I _{F(AV)}	50% duty cycle @TC =105 $^\circ\!$	3.0	А
One Cycle Non-Repetitive Surge Forward Current	I _{FSM}	8.3ms, Half Sine pulse	45	A

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Electrical Characteristics:

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

* Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	R _{θJC}	DC operation	8	°C/W
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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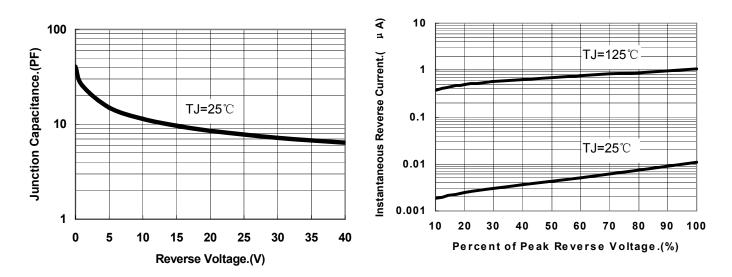




Fig.2-Typical Reverse Characteristics

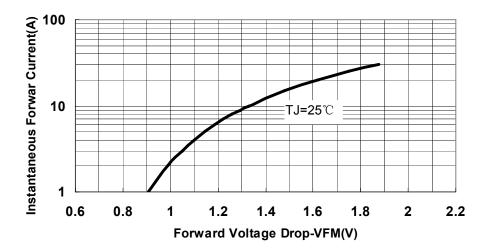


Fig.3-Typical Instantaneous Forward Voltage Characteristics



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