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MUR420AX ULTRAFAST RECTIFIERS

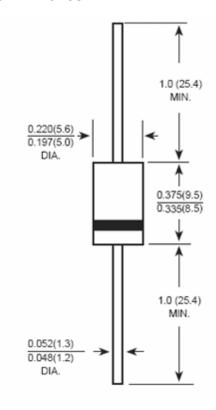
Applications:

- 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
4 = Forward Current (4A)
20 = Reverse Voltage (200V)
AX = Configuration
SSG = SSG
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR420AX	DO-201AD	1250nos / tono
	(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}	-	200	V
Average Forward Current	I _{F(AV)}	50% duty cycle @TC =105℃ rectangular wave form	4.0	Α
One Cycle Non-Repetitive Surge Forward Current	I _{FSM}	8.3ms, Half Sine pulse	80	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V _F	@ I _F =4A, Pulse, T _J = 25 °C	0.95	V
Reverse Current*	I _{R1}	$@V_R = \text{rated VR}$ $T_J = 25 ^{\circ}\text{C}$	2	μA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	80	pF
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%

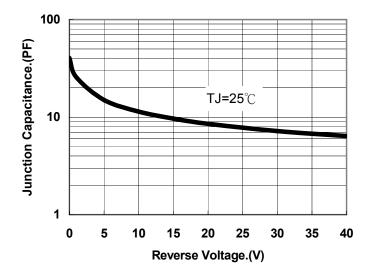
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance	$R_{ heta JC}$	DC operation	8	°C/W
Junction to Case Approximate Weight	wt	-	1.2	g
Case Style	DO-201AD			

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

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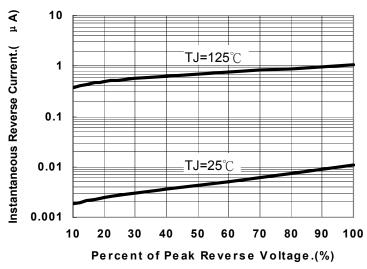


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

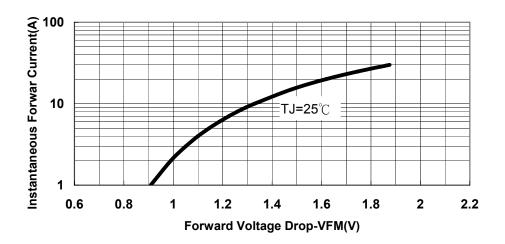


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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