Green Products

MUR520AX ULTRAFAST PLASTIC RECTIFIER

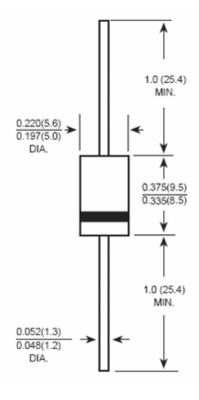
Applications:

- 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

5 = Forward Current (5A) 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
MUR520AX	DO-201AD	1250ncs / tone
	(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
Peak Inverse Voltage	V_{RWM}	-	200	V
Max. Average Forward	I _{F (AV)}	50% duty cycle @Tc=105°C, rectangular wave form	5.0	Α
Max. Peak One Cycle Non- Repetitive Surge Current (Per leg)	I _{FSM}	8.3ms, Half Sine pulse	65	А

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Electrical Characteristics:

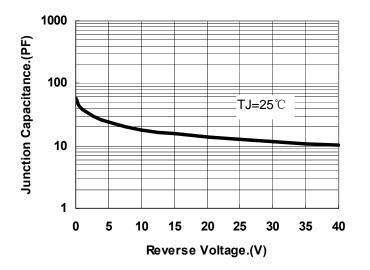
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 5.0A, Pulse, T _J = 25°C	1.05	V
Max. Reverse Current*	I _{R1}	@V _R = rated V _R	0.25	mA
		$T_J = 25^{\circ}C$		
	I_{R2}	$@V_R = V_R$	1.0	mA
		$T_J = 100$ °C		
Max. Reverse Recovery Time	t _{rr}	I _F =500mA, I _R =1A,and	40	ns
		I _{rm} =250mA		

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T _J	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal	$R_{\theta JC}$	DC operation	8	°C/W
Resistance Junction to Case		Be operation	0	0, 11
Approximate Weight	wt	-	1.02	g
Case Style		DO-201AD		

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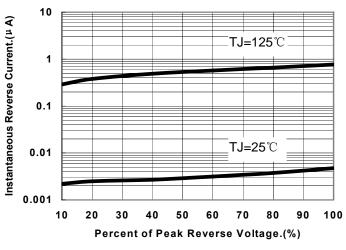


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

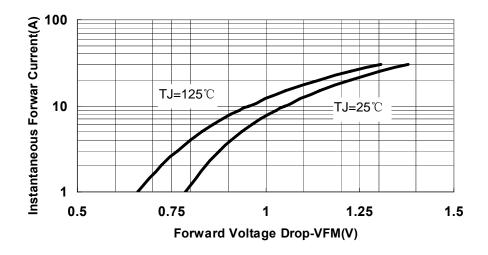


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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MUR520AX

Technical Data Data Sheet N0268, Rev. - **Green Products**

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