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MUR530AX ULTRAFAST PLASTIC RECTIFIER

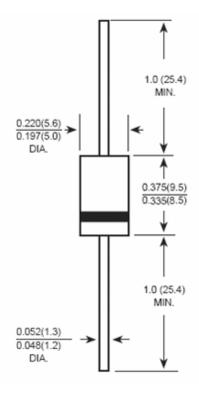
Applications:

- 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 Curr

5 = Forward Current (5A) 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
MUR530AX	DO-201AD	1250mag / tang
	(Pb-Free)	1250pcs / tape

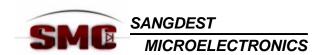
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	300	V
Average Forward Current	I _{F(AV)}	50% duty cycle @Tc=100°C, rectangular wave form	5	A
Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3ms, Half Sine pulse	150	Α

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Electrical Characteristics:

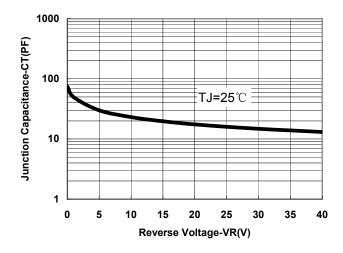
Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (Per leg)*	V_{F1}	@ I _F =5A, Pulse, T _J = 25℃	1.3	V
	V_{F2}	@ I _F =5A, Pulse, T _J = 125℃	1.2	V
Reverse Current (Per leg)*	I _{R1}	@V _R = rated V _R	10	μA
		T _J = 25℃		
	I _{R2}	@V _R = rated V _R	400	μA
		T _J = 100℃		
Reverse Recovery Time (Per leg)*	t _{rr}	I_F =500mA, I_R =1A,and I_m =250mA	50	ns

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +150	$^{\circ}\mathbb{C}$
Storage Temperature	T _{stg}	-	-55 to +150	$^{\circ}\mathbb{C}$
Maximum Thermal Resistance Junction to Case (Per Leg)	$R_{ heta JC}$		1.5	°C/W
Approximate Weight	wt	-	1.02	g
Case Style		DO-201AD		•

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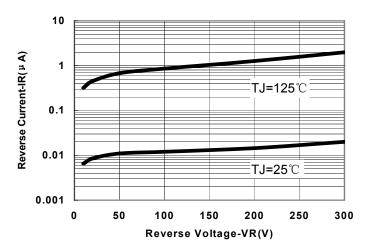


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

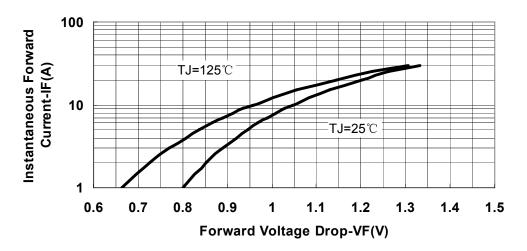


Fig.3-Typical Instantaneous Forward Characteristics

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MUR530AX

Technical Data Data Sheet N0269, Rev. - **Green Products**

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