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SUPERFAST RECOVERY RECTIFIERS

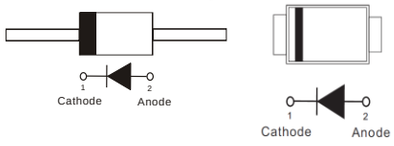
Voltage	600 V	Current	3 A

Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Hermetically sealed.
- Low leakage
- High surge capacity
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard (SMB, SMC)

Mechanical Data

- Case: Molded plastic, SMB, SMC, DO-201AD
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- SMB Approx. Weight: 0.0032 ounces, 0.092 grams
- SMC Approx. Weight: 0.0082 ounces, 0.2325 grams
- DO-201AD Approx. Weight: 0.04 ounces, 1.142 grams
- Marking: Part number



MUR360M DO-201AD



MURB3J SMB



MURC3J SMC



Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	600	V
Maximum rms voltage		V_{RMS}	420	V
Maximum dc blocking voltage		V_R	600	V
Maximum average forward current		$I_{F(AV)}$	3	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	SMB SMC DO-201AD	I_{FSM}	70 80 80	A
Maximum forward voltage at 3A		V_F	1.25	V
Maximum dc reverse current at rated dc blocking voltage		I_R	5	μA
Operating and storage temperature range		T_J, T_{STG}	-55 to +175	°C

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Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum reverse recovery time	(Note 4)	T_{RR}	50	ns
Typical thermal resistance	SMB(Note 3)	$R_{\theta JA}$	135	°C/W
	SMC(Note 3)	$R_{\theta JA}$	125	
	SMB(Note 1)	$R_{\theta JC}$	20	
	SMC(Note 1)	$R_{\theta JC}$	14	
	DO-201AD(Note 2)	$R_{\theta JL}$	24	

Note:1.Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area

2.The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10cm x 10cm × 0.5mm copper pad

3. Mounted on a FR4 PCB, single-sided copper, mini pad

4. Reverse Recovery Test Conditions : I_F=0.5A, I_R=-1A, Recover to -0.25A

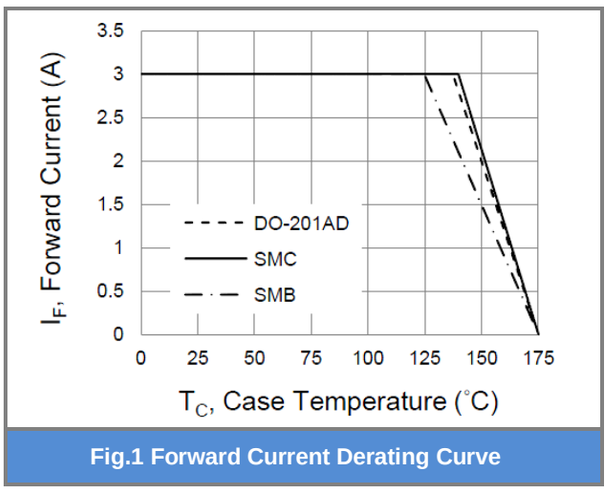


Fig.1 Forward Current Derating Curve

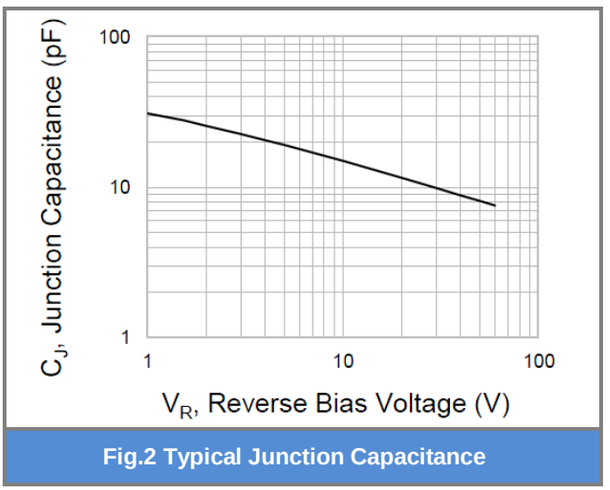


Fig.2 Typical Junction Capacitance

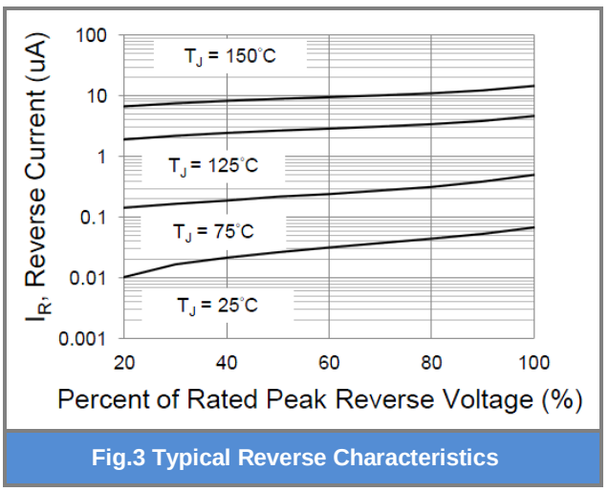


Fig.3 Typical Reverse Characteristics

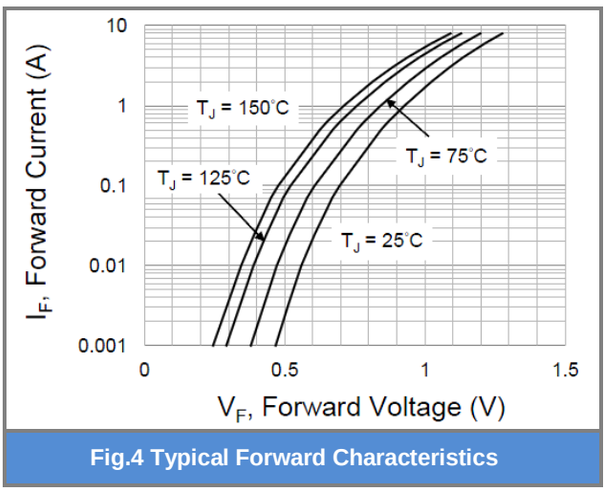


Fig.4 Typical Forward Characteristics

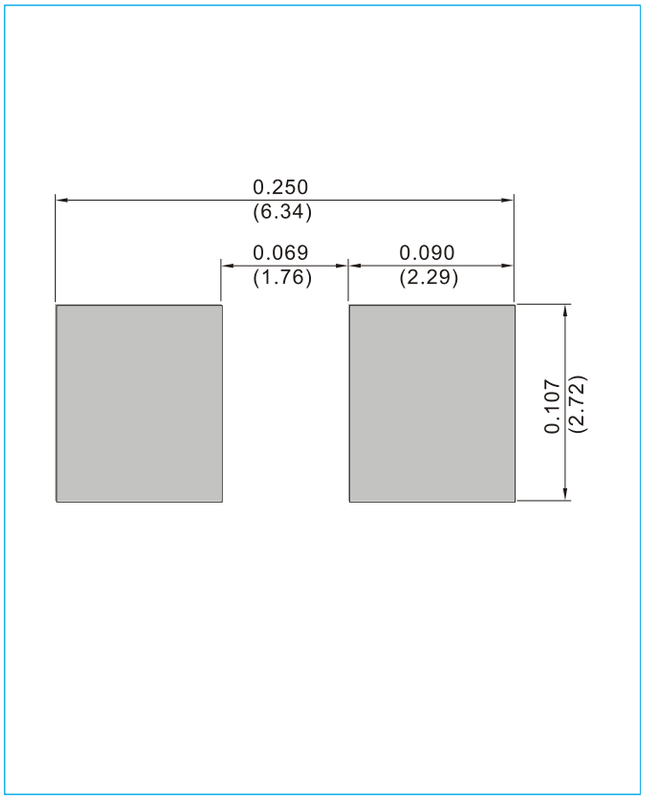
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PART NO PACKING CODE VERSION

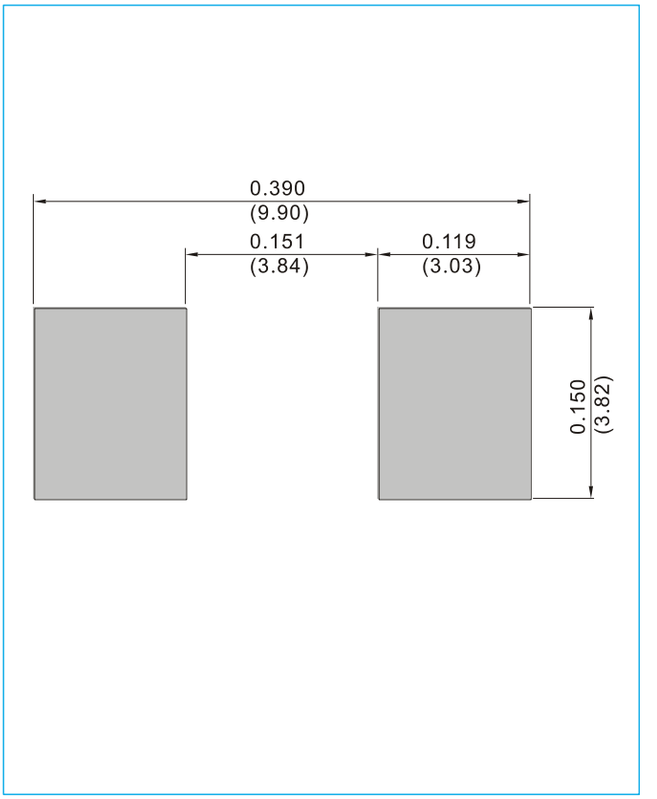
PART NO PACKING CODE	Package Type	Packing type	Marking	Version
MUR360M_AY_00001	DO-201AD	1.25K pcs / TB 52mm	MUR360M	Halogen free
MUR360M_AY_00001	DO-201AD	1.25K pcs / TB 52mm	MUR360M	RoHS
MURB3J_R1_00001	SMB	0.8K pcs / 7" reel	MURB3J	Halogen free
MURC3J_R1_00001	SMC	0.8K pcs / 7" reel	MURC3J	Halogen free

MOUNTING PAD LAYOUT

SMB / DO-214AA Unit：inch(mm)



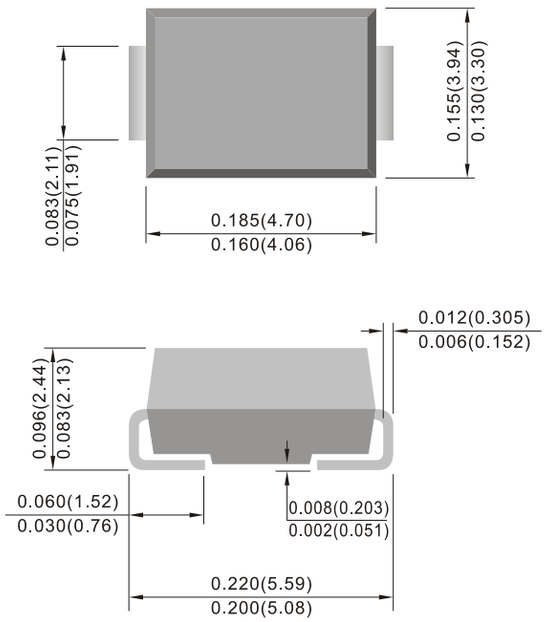
SMC / DO-214AB Unit：inch(mm)



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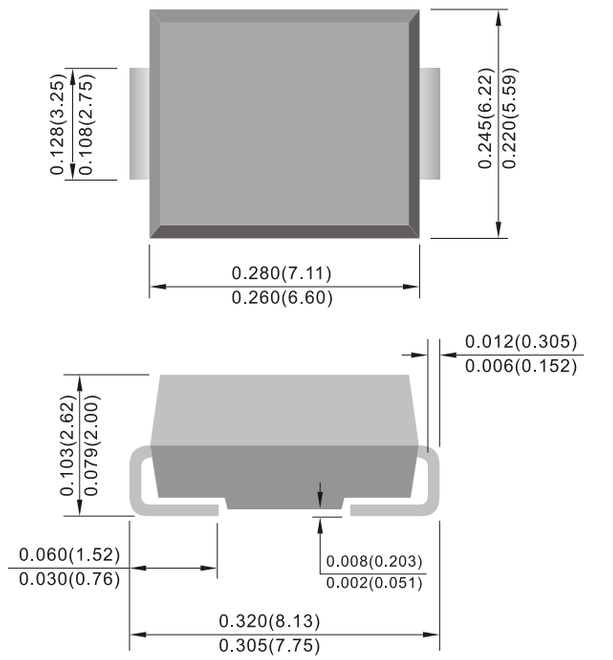
SMB / DO-214AA

Unit : inch(mm)



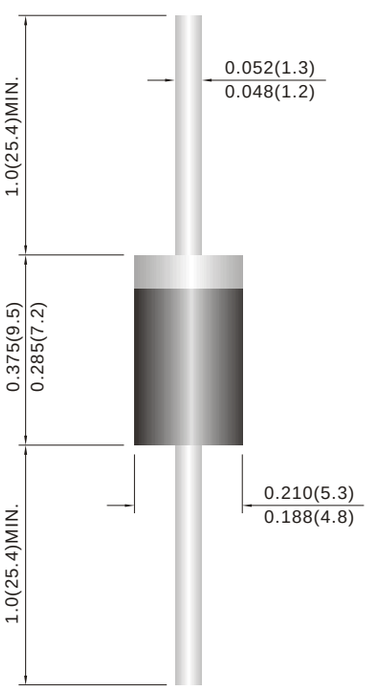
SMC / DO-214AB

Unit : inch(mm)



DO-201AD

Unit : inch(mm)



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