



SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

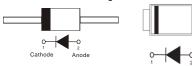
3 A

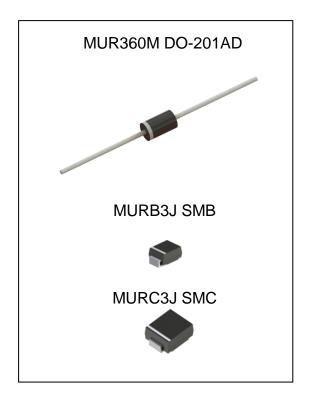
Features

- 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





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

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		Vrrm	600	V
Maximum rms voltage		VRMS	420	V
Maximum dc blocking voltage		VR	600	V
Maximum average forward current		I F(AV)	3	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	SMB SMC DO-201AD	IFSM	70 80 80	А
Maximum forward voltage at 3A		VF	1.25	V
Maximum dc reverse current at rated dc blocking voltage		lr	5	μΑ
Operating and storage temperature range		TJ, Tsтg	-55 to +175	°C



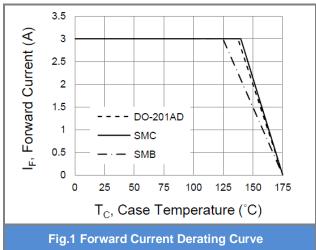


Maximum Ratings (T_A=25°C unless otherwise noted)

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

Note:1.Mounted on a FR4 PCB, single-sided copper, with $100 \mathrm{cm}^2$ 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 x 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



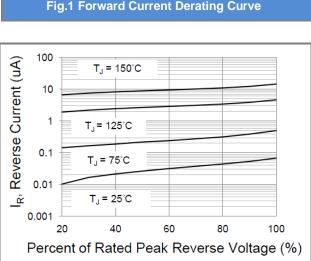
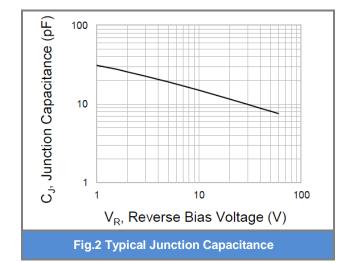
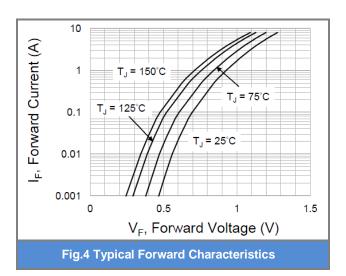


Fig.3 Typical Reverse Characteristics





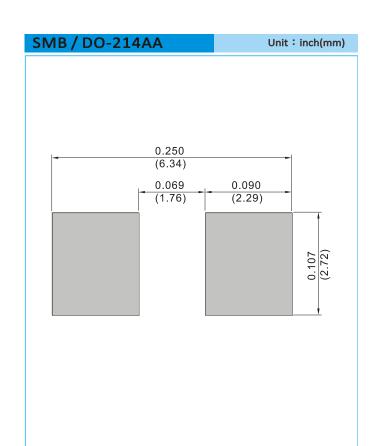


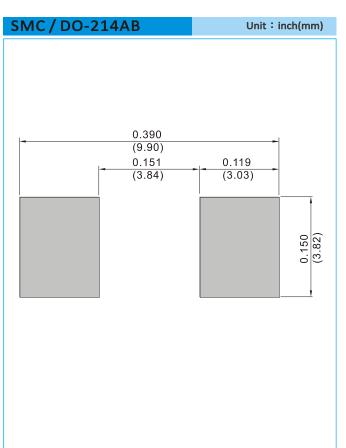


PART NO PACKING CODE VERSION

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

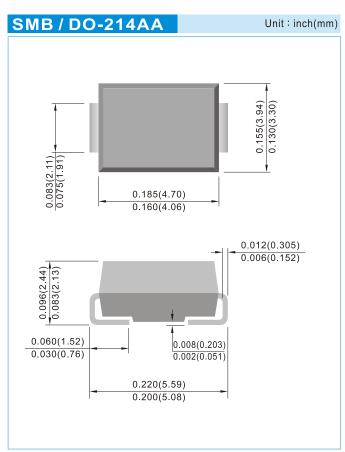
MOUNTING PAD LAYOUT

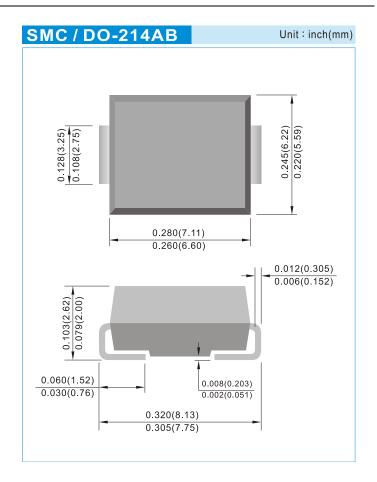


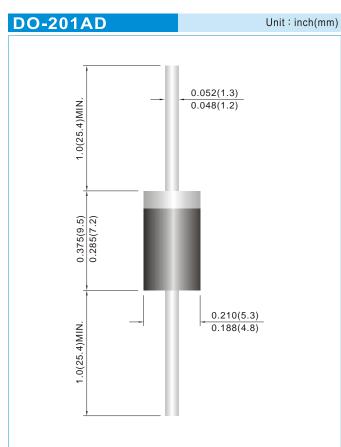
















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