



SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

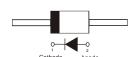
5 A

Features

- Silicon epitaxial high-speed diodes
- Soft recovery characteristics
- Low forward voltage, high current capability
- Hermetically sealed.
- Low leakage
- High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: Molded plastic, SMC, DO-201AD, TO-252
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- SMC Approx. Weight: 0.0082 ounces, 0.2325 grams
- DO-201AD Approx. Weight: 0.04 ounces, 1.142 grams
- TO-252 Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number







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

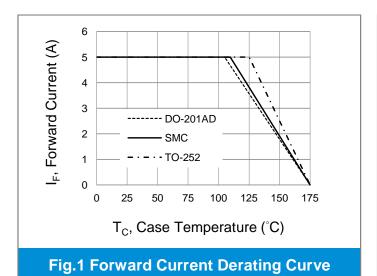
PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		Vrrm	600	V
Maximum rms voltage		VRMS	420	V
Maximum dc blocking voltage		VR	600	V
Maximum average forward current		lf(AV)	5	Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	SMC DO-201AD TO-252	IFSM	110 110 80	А
Maximum forward voltage at 5A		VF	1.3	V
Maximum dc reverse current at rated dc blocking voltage		lr	5	μΑ
Maximum reverse recovery time	(Note 5)	T _{RR}	50	ns
Typical thermal resistance	SMC(Note 3) SMC(Note 1) DO-201AD(Note 2) TO-252(Note 4)	$egin{array}{c} R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL} \ R_{ heta JC} \end{array}$	125 14 24 6.5	°C/W
Operating and storage temperature range		TJ, Tsтg	-55 to +175	°C

Note: 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² 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. Mounted on 10cm x 10cm x 1mm copper pad area
- 5. Reverse Recovery Test Conditions : I_F =0.5A, I_R =1A, Recover to 0.25A







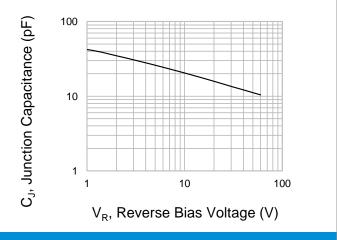
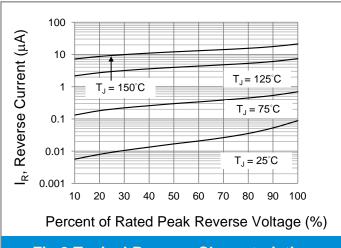


Fig.2 Typical Junction Capacitance



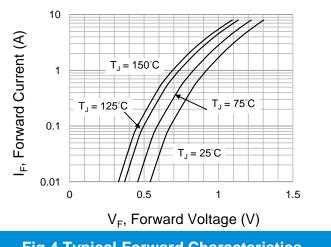


Fig.3 Typical Reverse Characteristics Fig.4 Typical Forward Characteristics

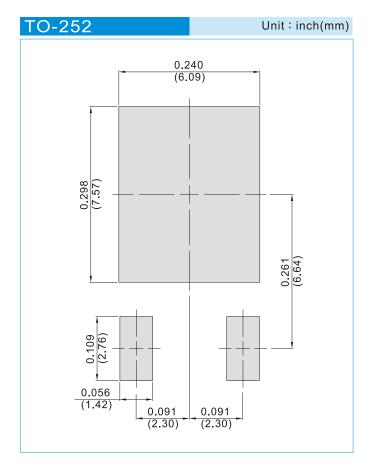


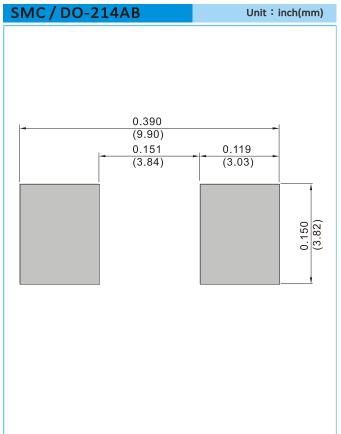


PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing type	Marking	Version
MUR560M_AY_00001	DO-201AD	1.25K pcs / TB 52mm	MUR560M	Halogen free
MUR560S_L2_00001	TO-252	3K pcs / 13" rel	MUR560S	Halogen free
MURC5J_R1_00001	SMC	0.8K pcs / 7" reel	MURC5J	Halogen free

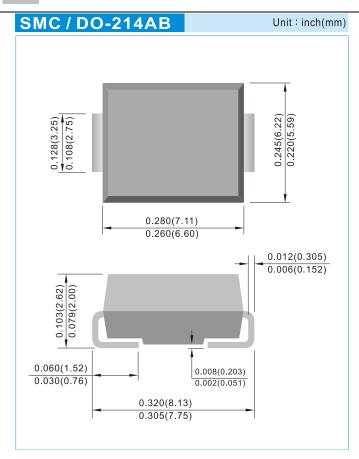
MOUNTING PAD LAYOUT

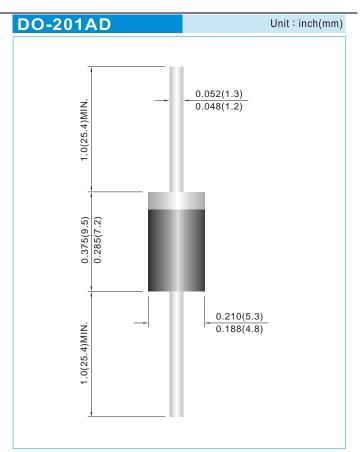


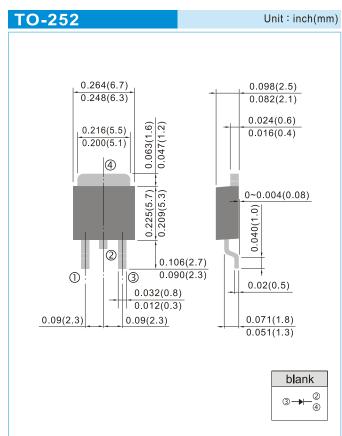
















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