



SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

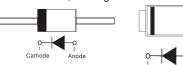
4 A

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
- 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
- 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)	4	Α
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	110	А
Maximum forward voltage at 4A		VF	1.28	V
Maximum dc reverse current at rated dc blocking voltage		lr	5	μΑ
Maximum reverse recovery time	(Note 4)	Trr	50	ns
Typical thermal resistance	SMC(Note 3)	$R_{ heta JA}$	125	
	SMC(Note 1)	$R_{ heta JC}$	14	°C/W
	DO-201AD(Note 2)	$R_{ heta JL}$	24	
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. Reverse Recovery Test Conditions : IF=0.5A, IR=1A, Recover to 0.25A





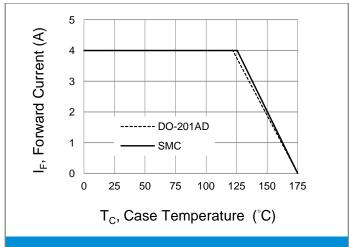


Fig.1 Forward Current Derating Curve

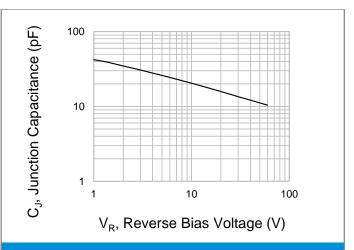


Fig.2 Typical Junction Capacitance

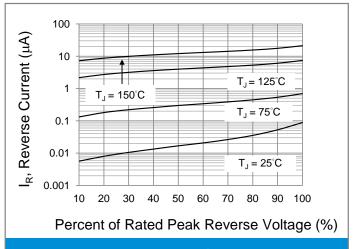


Fig.3 Typical Reverse Characteristics

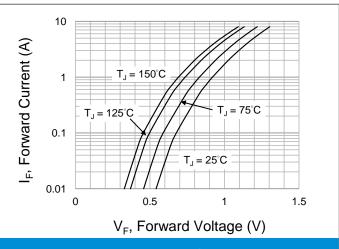


Fig.4 Typical Forward Characteristics

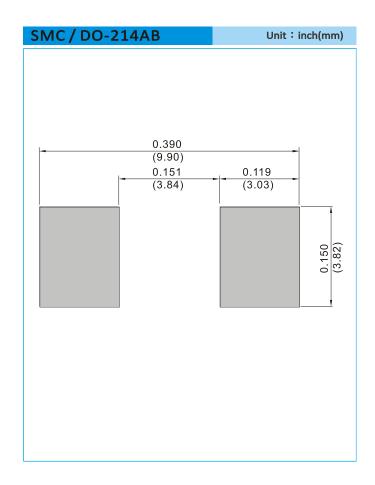




PART NO PACKING CODE VERSION

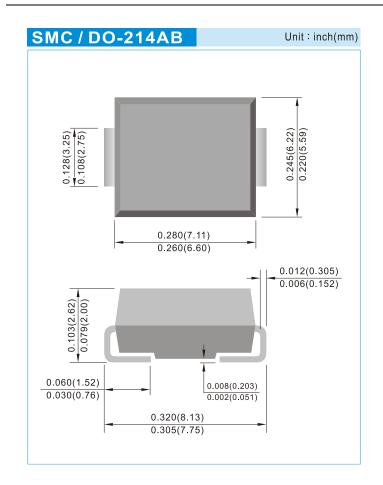
PART NO PACKING CODE	Package Type	Packing type	Marking	Version
MUR460M_AY_00001	DO-201AD	1.25K pcs / TB 52mm	MUR460M	Halogen free
MURC4J_R1_00001	SMC	0.8K pcs / 7" reel	MURC4J	Halogen free

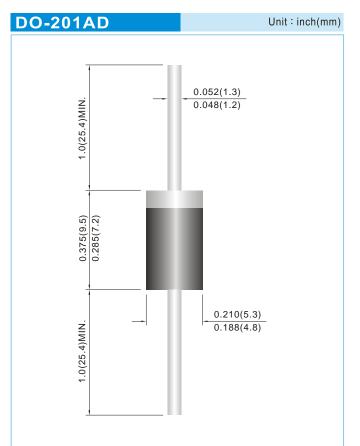
MOUNTING PAD LAYOUT















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