



MURC4JI / MUR460IM

SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

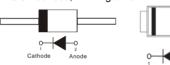
4 A

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

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	А
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	80	А
Typical forward voltage at 4A		VF	1.28	V
Maximum dc reverse current at rated dc blocking voltage		I R	5	μА
Maximum reverse recovery time	(Note 4)	Trr	50	ns
Typical thermal resistance	SMC(Note 3)	$R_{\theta JA}$	125	
	SMC(Note 1)	$R_{ heta JC}$	14	°C/W
	DO-201AD(Note 2)	$R_{\theta JL}$	24	
Operating and storage temperature range		TJ, TSTG	-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, IRR=0.25A

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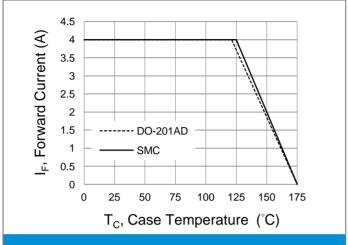


Fig.1 Forward Current Derating Curve

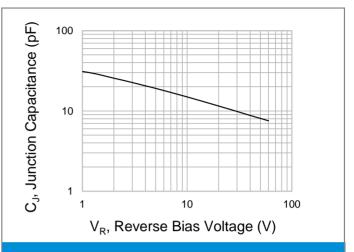


Fig.2 Typical Junction Capacitance

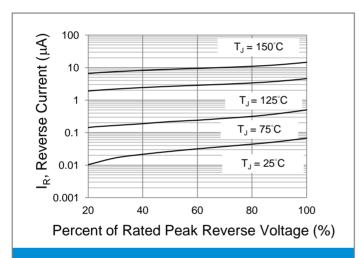


Fig.3 Typical Reverse Characteristics

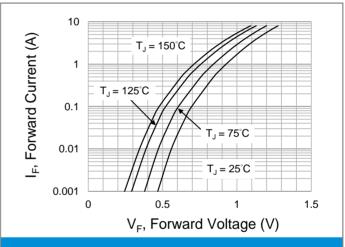


Fig.4 Typical Forward Characteristics

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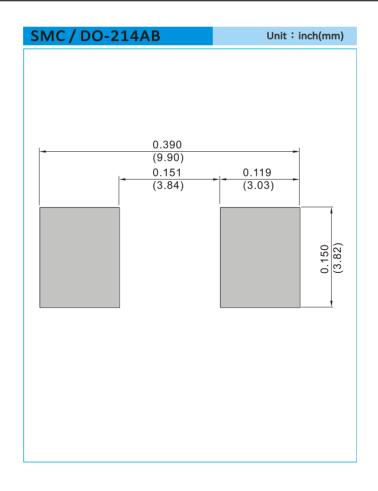


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PART NO PACKING CODE VERSION

PART NO PACKING CODE	Package Type	Packing Type	Marking	Version
MUR460IM_AY_00001	DO-201AD	1.25K pcs / TB 52mm	MUR460IM	Halogen free
MURC4JI_R1_00001	SMC	0.8K pcs / 7" reel	MURC4JI	Halogen free

MOUNTING PAD LAYOUT



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