PAN	JIT	
	SEMI CONDUCTOR	

MURC4JI / MUR460IM SUPERFAST RECOVERY RECTIFIERS Voltage 600 V Current 4 A Features MUR460IM DO-201AD 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 MURC4JI SMC** • 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 ($T_A=25^{\circ}C$ 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)	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		lr	5	μΑ
Maximum reverse recovery time	(Note 4)	Trr	50	ns
Typical thermal resistance	SMC(Note 3)	$R_{ extsf{ heta}JA}$	125	
	SMC(Note 1)	$R_{ extsf{ heta}JC}$	14	°C/W
	DO-201AD(Note 2)	$R_{ extsf{ hetaJL}}$	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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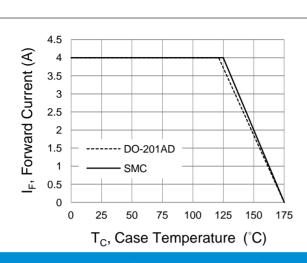


Fig.1 Forward Current Derating Curve

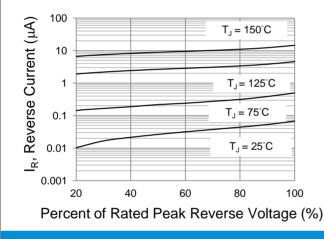
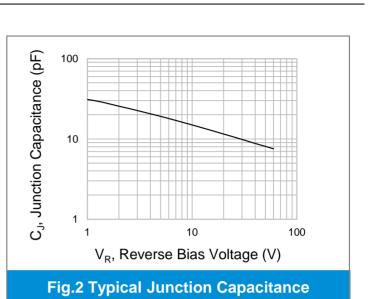
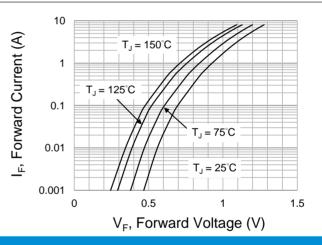


Fig.3 Typical Reverse Characteristics









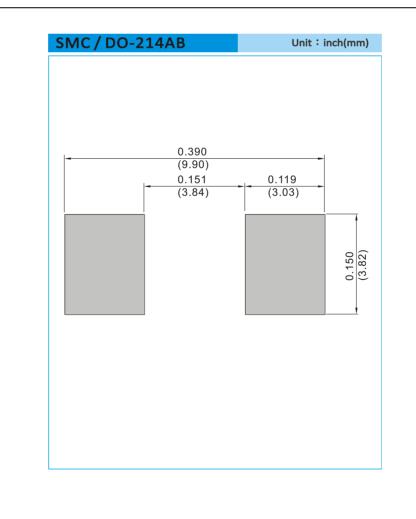


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PART NO PACKING CODE VERSION

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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