



FAST RECOVERY RECTIFIERS

Voltage

1000 V

Current

1 A

Features

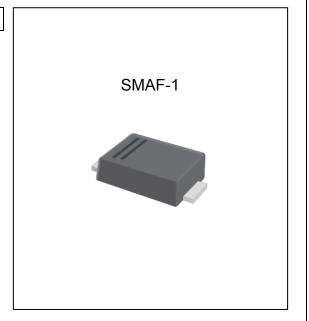
- Glass passivated junction
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O utilizing
 Flame Retardant Epoxy Molding Compound
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free)

Mechanical Data

- Case: Molded plastic, SMAF-1
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Approx. Weight: 0.00093 ounces, 0.027 grams
- Marking: LRS1MF







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

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		VRRM	1000	V
Maximum rms voltage		VRMS	700	V
Maximum dc blocking voltage		VR	1000	V
Maximum average forward current		I F(AV)	1	Α
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	25	А
Typical forward voltage at 1A		VF	1.3	V
Maximum dc reverse current at rated dc blocking voltage		lr	5	μΑ
Typical junction capacitance Measured at 1MHz and applied V _R =4V		Cı	8	pF
Maximum reverse recovery time	(Note 3)	T _{RR}	500	ns
Typical thermal resistance	(Note 1)	Rеја	150	°C/W
	(Note 2)	Rejc	18	
Operating and storage temperature range		TJ, Tstg	-55 to +150	°C

Note: 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
- 3. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, IRR=0.25A





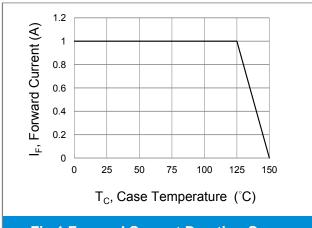


Fig.1 Forward Current Derating Curve

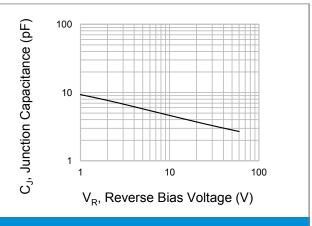


Fig.2 Typical Junction Capacitance

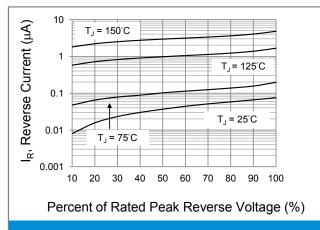


Fig.3 Typical Reverse Characteristics

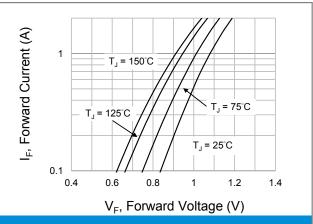
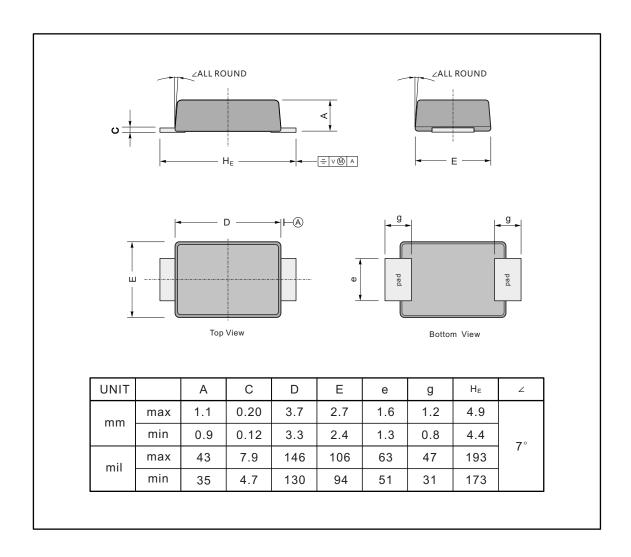
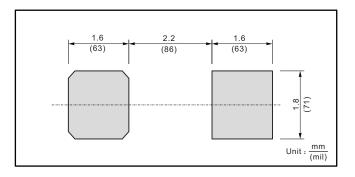


Fig.4 Typical Forward Characteristics













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