

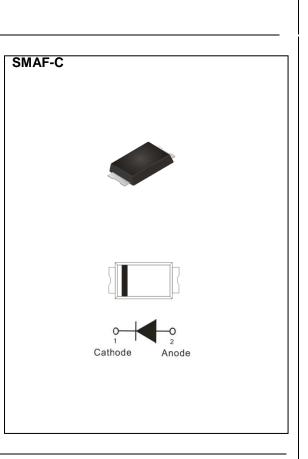
Surface Mount Super Fast Recovery RectifierVoltage200 VCurrent2 A

Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Low reverse current
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : SMAF-C Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0012 ounces, 0.034 grams



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Forward Current	IF(AV)	2	А
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	IFSM	60	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	25	pF
(Note 1) Typical Thermal Resistance (Note 2)	R _{0JA} R _{0JC}	150 23	°C/W
Operating Junction Temperature Range	TJ	-55~175	°C
Storage Temperature Range	Tstg	-55~175	°C







Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I⊧ = 1 A, TJ = 25 °C	-	0.83	-	V
		I _F = 2 A, T _J = 25 °C	-	-	0.95	
		I⊧ = 1 A, TJ = 125 °C	-	0.67	-	
		I _F = 2 A, T _J = 125 °C	-	0.76	-	
Reverse Current ^(Note 3)	I _R	V _R = 160 V, T _J = 25 °C	-	5	-	nA
		$V_R = 200 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	-	1	uA
		$V_R = 200 V, T_J = 125 ^{\circ}C$	-	1.5	-	
Reverse Recovery Time	T _{RR}	$I_F = 0.5 A$, $I_R = 1 A$,	-	-	20	ns
		I _{RR} = 0.25 A, T _J = 25 °C				

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect



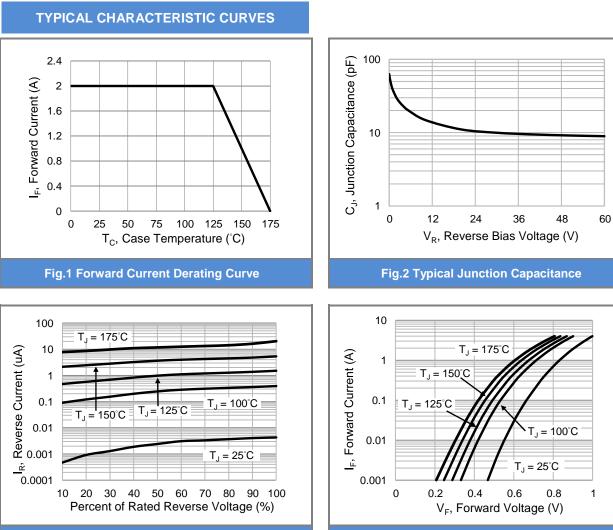


Fig.3 Typical Reverse Characteristics

Fig.4 Typical Forward Characteristics

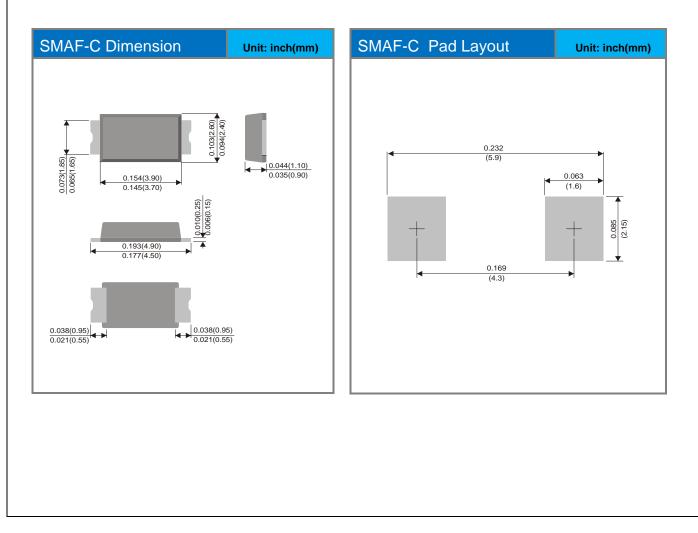


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Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MSR2DAFC_R1_00001	SMAF-C	3K / 7" Reel	MSR2D	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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