



Surface Mount Schottky Barrier Rectifier

Voltage 80~200 V Current 3 A

Features

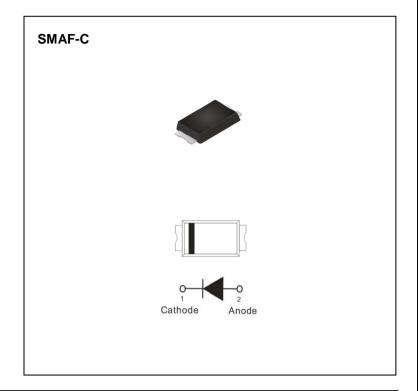
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case : Molded plastic, SMAF-C

• 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	MBR38AFC	MBR39AFC	MBR310AFC	MBR315AFC	MBR320AFC	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	56	63	70	105	140	V
Maximum DC Blocking Voltage	VR	80	90	100	150	200	٧
Maximum Average Forward Rectified Current	l _{F(AV)}	3					А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	Іғѕм	80				А	
Instantaneous Forward Voltage at 3A	VF	0.8 0.9			.9	V	
Reverse Current(Note 4)	I _R	50				uA	
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	Сл		20		10	85	pF
Typical Thermal Resistance (Note 2) (Note 3)	Reja Rejl Rejc	150 20 22				°C/W	
Operating Junction Temperature Range	TJ	-55 to +150				°C	
Storage Temperature Range	T _{STG}	-55 to +150			°C		

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint
- 2. Mounted on a FR4 PCB, single-sided copper, with 48cm² copper pad area
- 3. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
- 4. Short duration pulse test used to minimize self-heating effect





TYPICAL CHARACTERISTIC CURVES

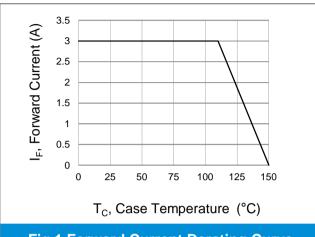


Fig.1 Forward Current Derating Curve

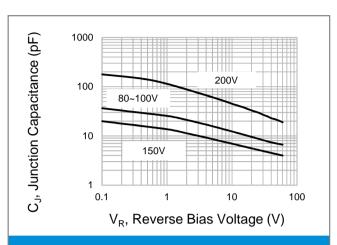


Fig.2 Typical Junction Capacitance

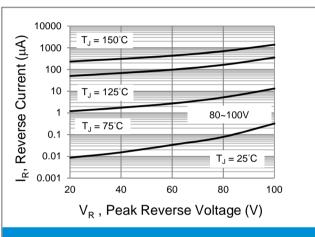


Fig.3 Typical Reverse Characteristics

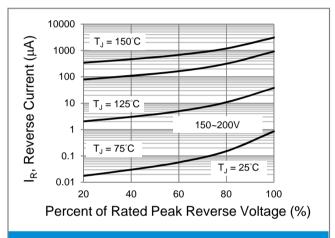


Fig.4 Typical Reverse Characteristics

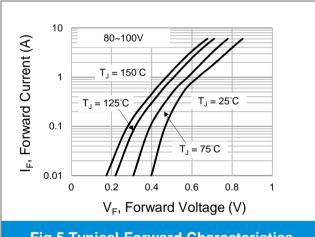


Fig.5 Typical Forward Characteristics

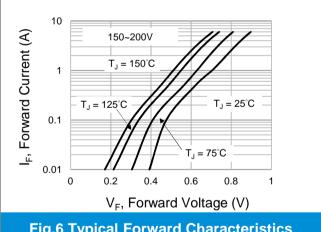
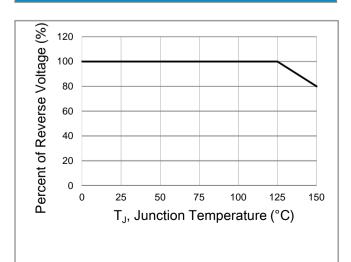


Fig.6 Typical Forward Characteristics



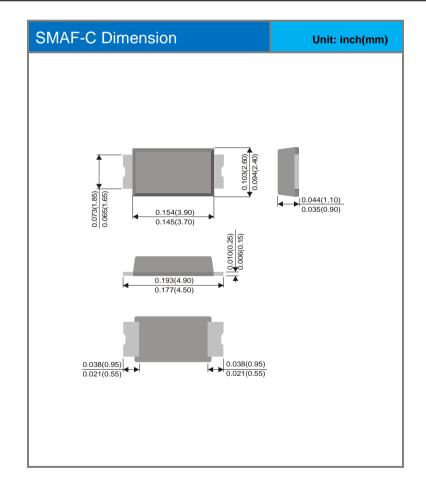


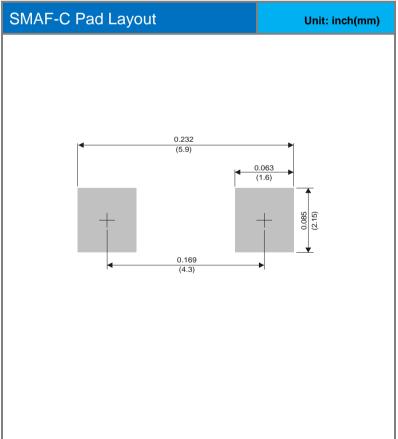


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MBR38AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR38	Halogen free
MBR39AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR39	Halogen free
MBR310AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR310	Halogen free
MBR315AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR315	Halogen free
MBR320AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR320	Halogen free

Packaging Information & Mounting Pad Layout









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