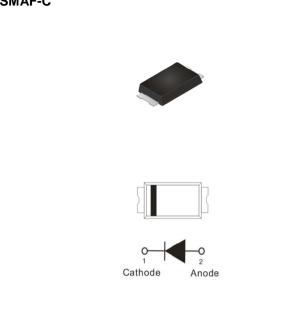


MBR18AFC ~ MBR120AFC Series Surface Mount Schottky Barrier Rectifier Voltage 80~200 V Current 1 A SMAF-C Features • Low power loss, high efficiency • High surge current capability • Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard Mechanical Data • Case : Molded 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)

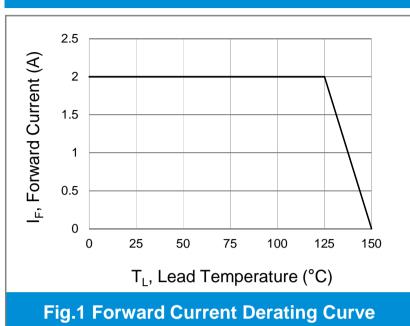
PARAMETER	SYMBOL	MBR18AFC	MBR19AFC	MBR110AFC	MBR115AFC	MBR120AFC	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _R	80	90	100	150	200	V
Maximum Average Forward Rectified Current	IF(AV)	1					A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	IFSM	30					A
Instantaneous Forward Voltage at 1A	VF	0.8 0.9				.9	V
Reverse Current ^(Note 3)	IR	0.05					mA
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ		50		40	30	pF
Typical Thermal Resistance (Note 1) (Note 2)	Røjl Røja	19 150					°C/W
Operating Junction Temperature Range	TJ	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					٥C

NOTES:

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



TYPICAL CHARACTERISTIC CURVES



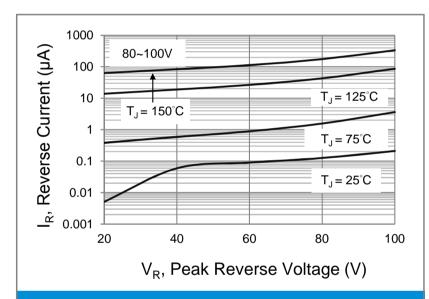
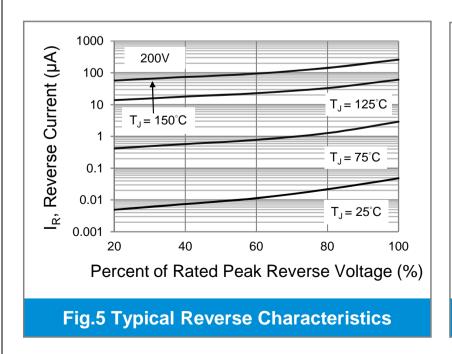


Fig.3 Typical Reverse Characteristics



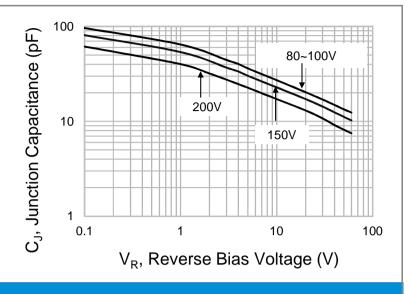


Fig.2 Typical Junction Capacitance

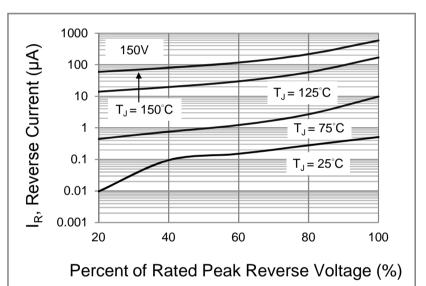


Fig.4 Typical Reverse Characteristics

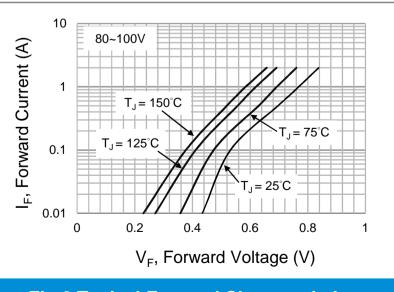


Fig.6 Typical Forward Characteristics

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TYPICAL CHARACTERISTIC CURVES

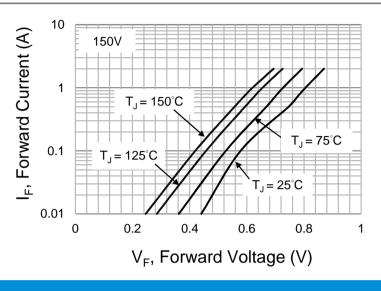


Fig.7 Typical Forward Characteristics

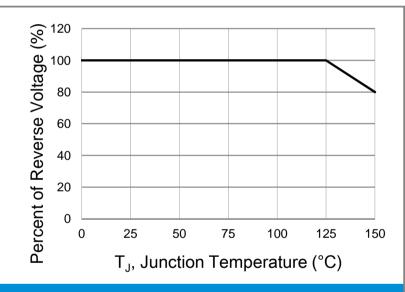


Fig.9 Operating Temperature Derating Curve

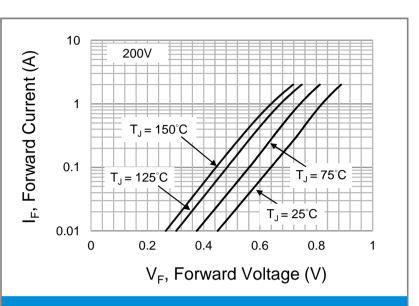


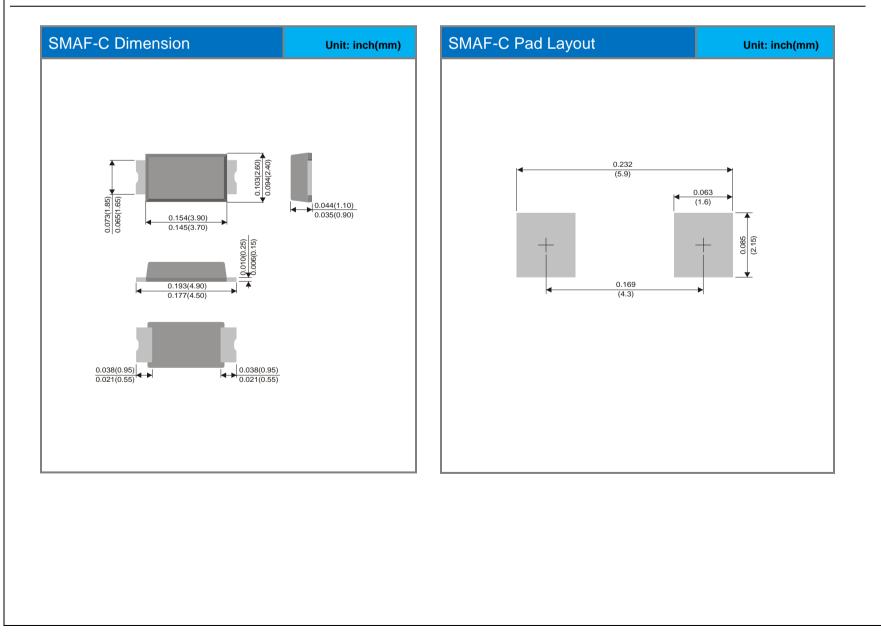
Fig.8 Typical Forward Characteristics



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MBR18AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR18	Halogen free
MBR19AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR19	Halogen free
MBR110AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR110	Halogen free
MBR115AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR115	Halogen free
MBR120AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR120	Halogen free

Packaging Information & Mounting Pad Layout





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