



MBR3H60AFC-AU

Surface Mount Ultra Low I_R Schottky Barrier Rectifier

Voltage

60 V

Current

3 A

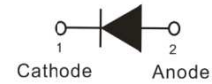
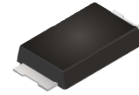
Features

- Low leakage current
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

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

SMAF-C



Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_R	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	80	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	C_J	150	pF
Typical Thermal Resistance (Note 1) (Note 2)	$R_{\theta JA}$	150	$^\circ\text{C/W}$
	$R_{\theta JC}$	20	
Operating Junction Temperature Range	T_J	-55 to +175	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +175	$^\circ\text{C}$



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 1\text{ A}, T_J = 25^\circ\text{C}$	-	0.54	-	V
		$I_F = 3\text{ A}, T_J = 25^\circ\text{C}$	-	-	0.7	
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.44	-	
		$I_F = 3\text{ A}, T_J = 125^\circ\text{C}$	-	0.56	-	
Reverse Current ^(Note 3)	I_R	$V_R = 48\text{ V}, T_J = 25^\circ\text{C}$	-	0.1	-	uA
		$V_R = 60\text{ V}, T_J = 25^\circ\text{C}$	-	-	5	
		$V_R = 60\text{ V}, T_J = 125^\circ\text{C}$	-	0.21	-	mA

NOTES:

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



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TYPICAL CHARACTERISTIC CURVES

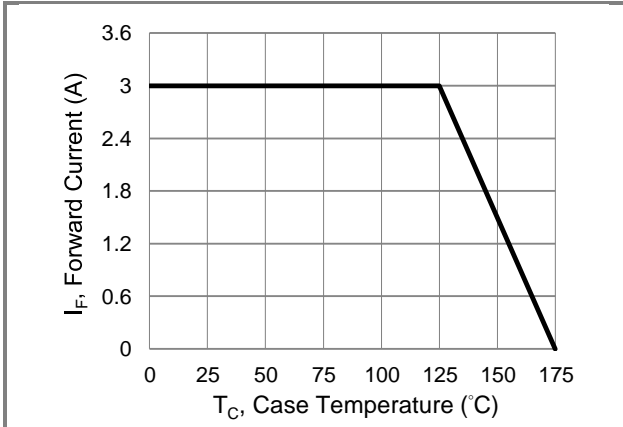


Fig.1 Forward Current Derating Curve

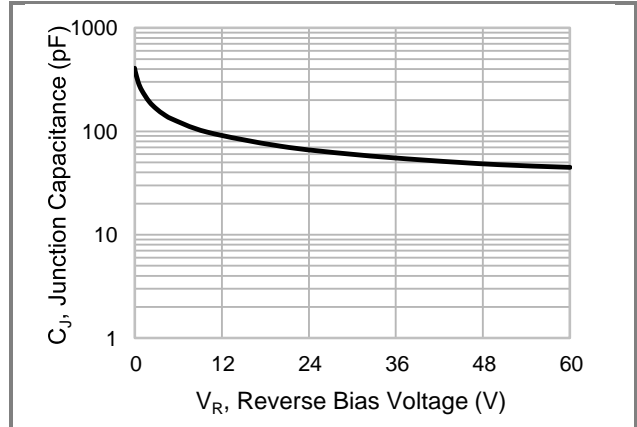


Fig.2 Typical Junction Capacitance

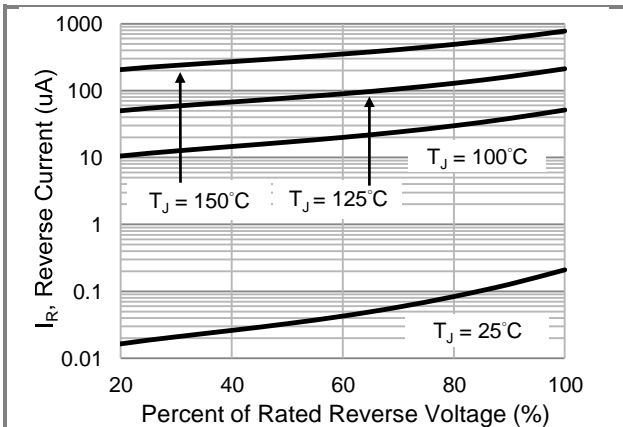


Fig.3 Typical Reverse Characteristics

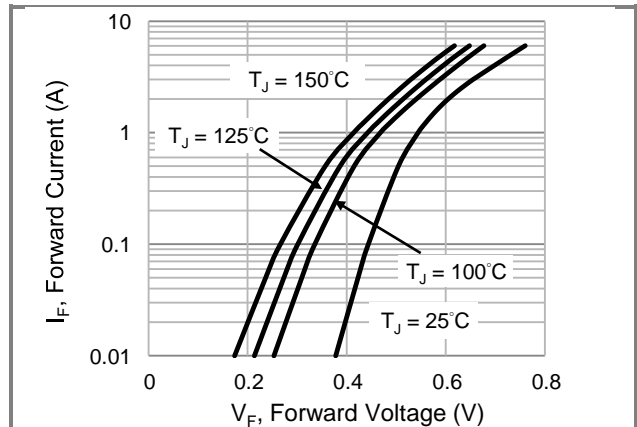


Fig.4 Typical Forward Characteristics

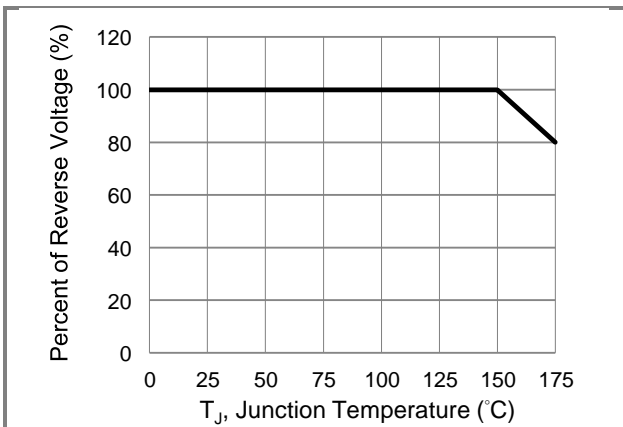


Fig.5 Operating Temperature Derating Curve

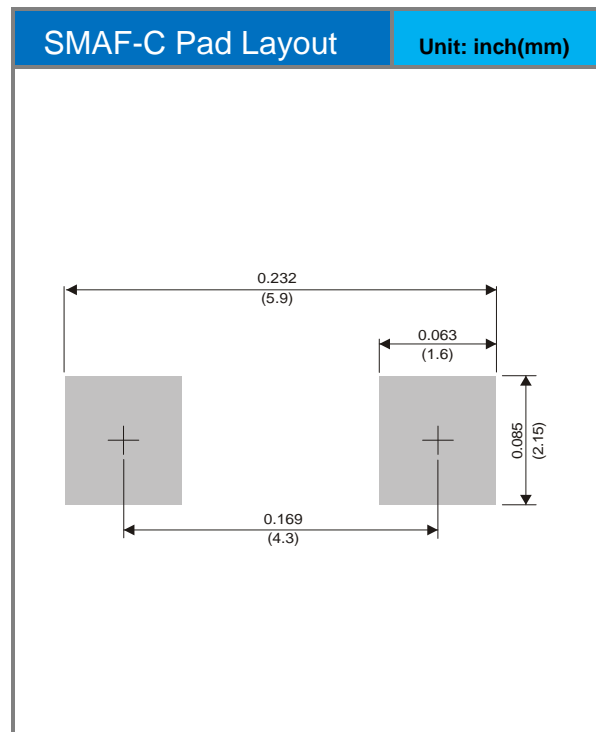
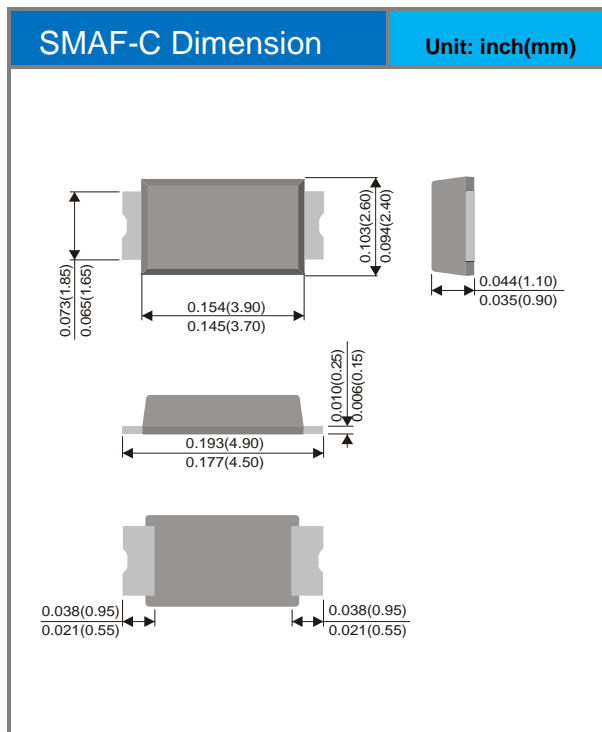


MBR3H60AFC-AU

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MBR3H60AFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	MBR3H60	Halogen free

Packaging Information & Mounting Pad Layout





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