

60 V

Surface Mount Ultra Low IR Schottky Barrier Rectifier

Voltage

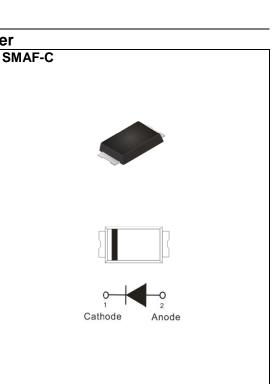
Current 3 A

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



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	60	V
Maximum RMS Voltage	Vrms	42	V
Maximum DC Blocking Voltage	V _R	60	V
Maximum Average Forward Rectified Current	IF(AV)	3	А
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 $V_R = 4V$	CJ	150	pF
Typical Thermal Resistance (Note 1) (Note 2)	Reja Rejc	150 20	°C/W
Operating Junction Temperature Range	TJ	-55 to +175	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C





Electrical Characteristics (T_A = 25^oC unless otherwise noted)

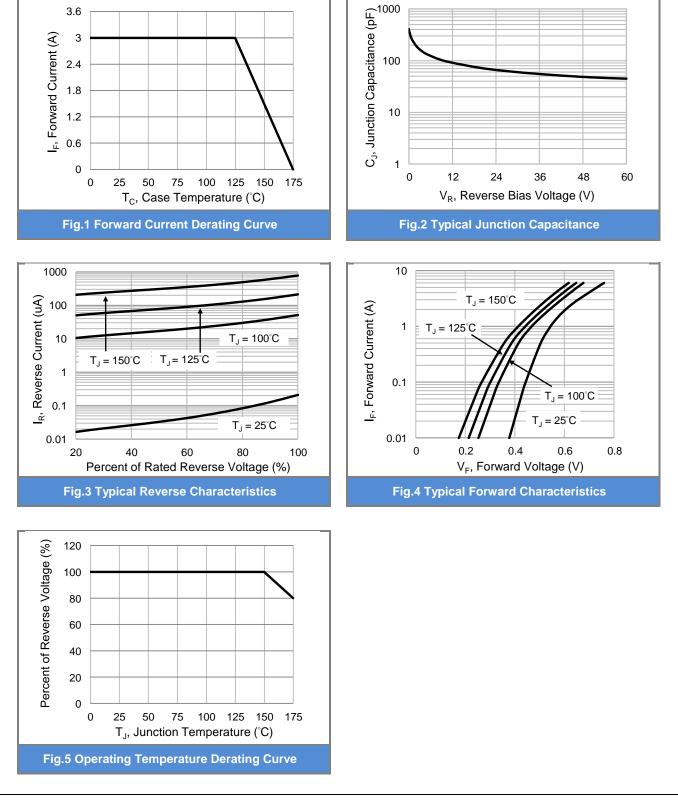
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.54	-	V
		I _F = 3 A, T _J = 25 °C	-	-	0.7	
		I _F = 1 A, T _J = 125 °C	-	0.44	-	
		I _F = 3 A, T _J = 125 °C	-	0.56	-	
Reverse Current ^(Note 3)	I _R	V _R = 48 V, T _J = 25 °C	-	0.1	-	uA
		V _R = 60 V, T _J = 25 °C	-	-	5	
		V _R = 60 V, T _J = 125 °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







TYPICAL CHARACTERISTIC CURVES

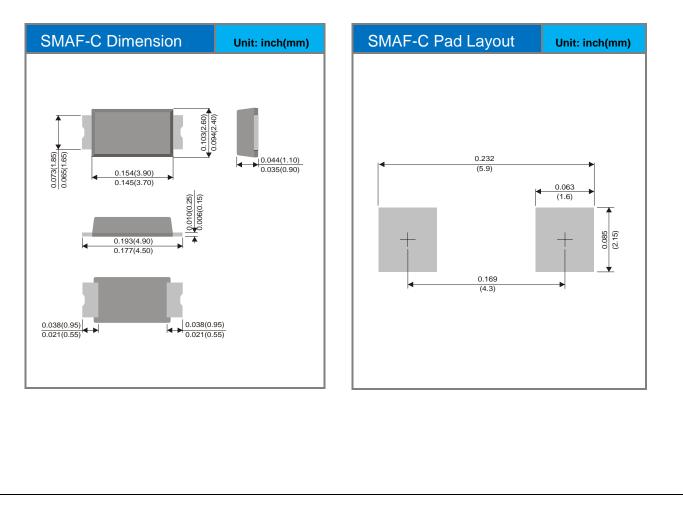
CONDUCTOR



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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