



Surface Mount Ultra Low IR Schottky Barrier Rectifier

Voltage 60 V Current 5 A

Features

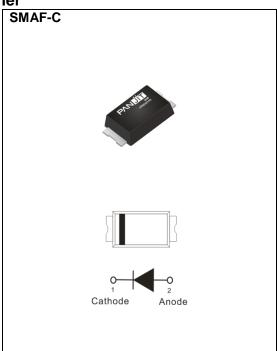
- Low leakage current
- Ideal for automated placement
- Low power loss, high efficiency
- · High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case : SMAF-C plastic

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.034 grams



Maximum Ratings and Thermal Characteristics (T_A = 25°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)}	5	Α	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	100	А	
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	Сл	225	pF	
Typical Thermal Resistance (Note 1) (Note 2)	RөJА RөJС	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°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.53		V
		I _F = 2 A, T _J = 25 °C	-	0.58	-	
		I _F = 5 A, T _J = 25 °C	-	-	0.75	
		I _F = 1 A, T _J = 125 °C	-	0.41	-	
		I _F = 2 A, T _J = 125 °C	-	0.48	-	
		I _F = 5 A, T _J = 125 °C	-	0.59	-	
Reverse Current ^(Note 3)	I _R	V _R = 48 V, T _J = 25 °C	-	140	-	nA
		V _R = 60 V, T _J = 25 °C	-	-	5	
		V _R = 60 V, T _J = 125 °C	-	400	-	uA

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

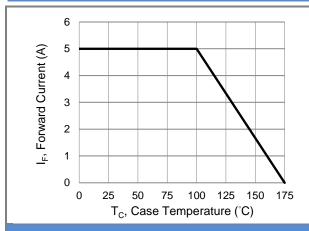


Fig.1 Forward Current Derating Curve

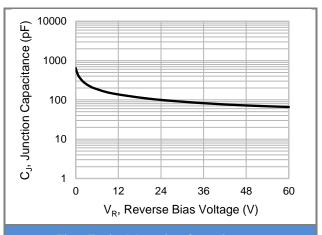


Fig.2 Typical Junction Capacitance

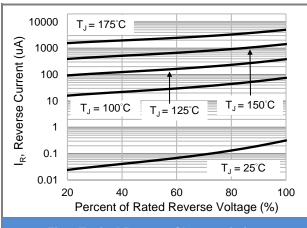


Fig.3 Typical Reverse Characteristics

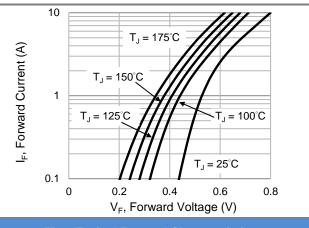


Fig.4 Typical Forward Characteristics

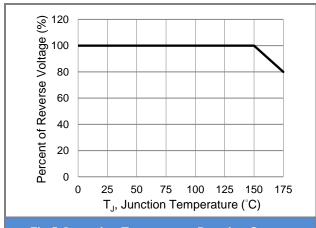


Fig.5 Operating Temperature Derating Curve

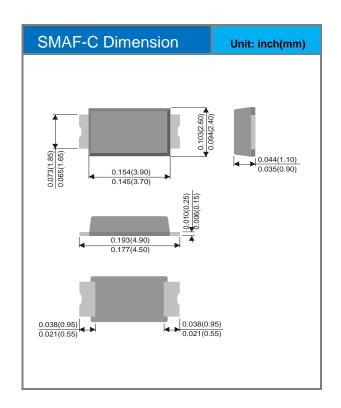


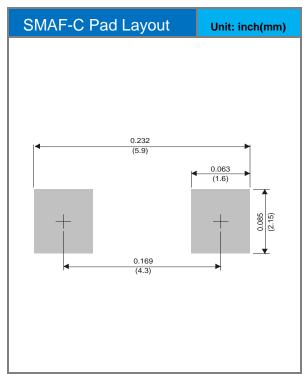


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MBR5H60AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR5H60	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout









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