



Surface Mount Ultra Low IR Schottky Barrier Rectifier

Voltage 60 V Current 3 A

Features

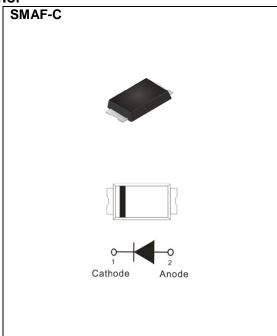
- Low leakage current
- Deal for automated placement
- Low power loss, high efficiency
- · High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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	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	Α	
Peak Forward Surge Current : 8.3 ms Single Half	1	00	Δ.	
Sine-Wave Superimposed On Rated Load	I _{FSM}	80	Α	
Typical Junction Capacitance	CJ	450	pF	
Measured at 1 MHz And Applied V _R = 4V		150		
(Note 1)	R _{θJA}	150	°C/W	
Typical Thermal Resistance (Note 2)	Rejc	20		
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	-	0.54	ı	V
		I _F = 3 A, T _J = 25 °C	-	-	0.7	
		I _F = 1 A, T _J = 125 °C	-	0.44	ı	
		I _F = 3 A, T _J = 125 °C	-	0.56	1	
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	ı	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

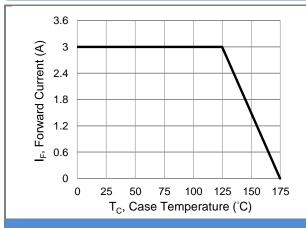


Fig.1 Forward Current Derating Curve

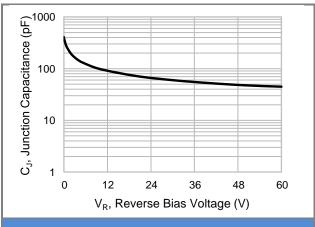


Fig.2 Typical Junction Capacitance

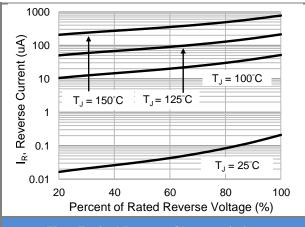


Fig.3 Typical Reverse Characteristics

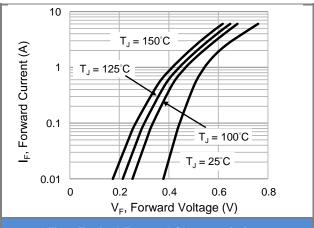


Fig.4 Typical Forward Characteristics

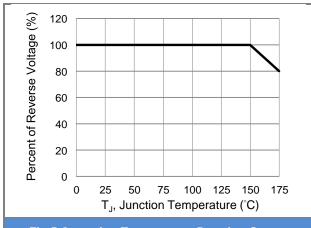


Fig.5 Operating Temperature Derating Curve

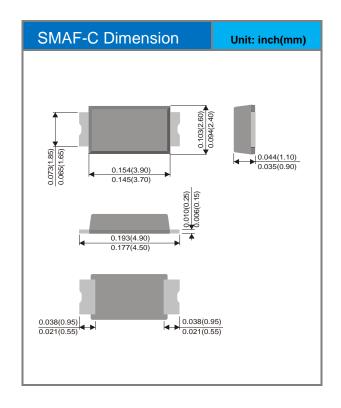


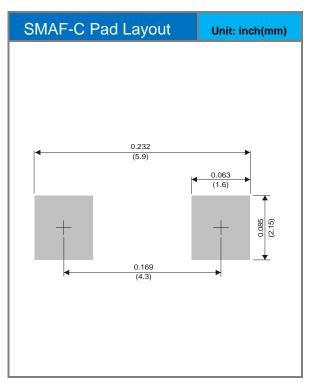


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MBR3H60AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR3H60	Halogen free

Packaging Information & Mounting Pad Layout









Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are
 responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no
 representation or warranty that such applications will be suitable for the specified use without further testing or
 modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Panjit manufacturer:

Other Similar products are found below:

MA4E2039 D1FH3-5063 MBR0530L-TP MBR10100CT-BP MBR1545CT MMBD301M3T5G RB160M-50TR RB551V-30

BAS16E6433HTMA1 BAT 54-02LRH E6327 NSR05F40QNXT5G JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SK310-T SK32A-LTP SK34B-TP SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G SB007-03C-TB-E SK32A-TP SK33B-TP SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G SS15E-TP ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF ACDBA3100-HF CDBQC0530L-HF CDBQC0240LR-HF ACDBA260LR-HF ACDBA1100-HF SK310B-TP MA4E2502L-1246 MA4E2502H-1246 NRVBM120ET1G NSR01L30MXT5G SB560 PMAD1108-LF SD103ATW-TP 1N5819T-G PDS1040Q-13 MBR3060FCTe3/TU