

Surface Mount Schottky Barrier Rectifier

Voltage 30~40 V Current 3 A

Features

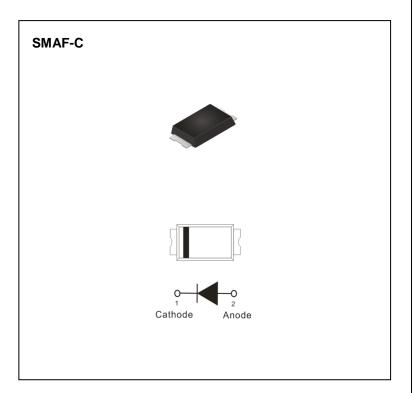
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case : 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)

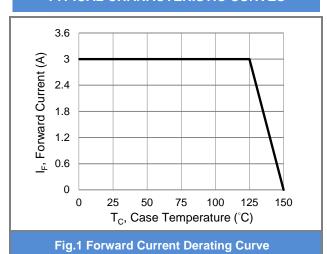
PARAMETER	SYMBOL	SB33AFC-AU	SB34AFC-AU	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	V
Maximum RMS Voltage	V _{RMS}	21	28	V
Maximum DC Blocking Voltage	VR	30	40	V
Maximum Average Forward Rectified Current	l _{F(AV)}	3		А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	80		А
Forward Voltage at 3A	V _F	0.5		V
Reverse Current ^(Note 3)	I _R	100		uA
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	160		pF
Typical Thermal Resistance (Note 1) (Note 2)	Rejl Reja	20 150		°C/W
Operating Junction Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	T _{STG}	-55 tc) +150	°C

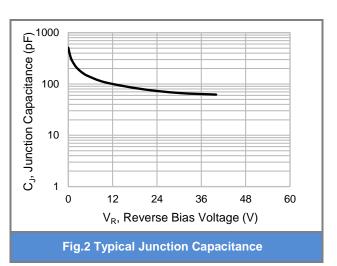
NOTES:

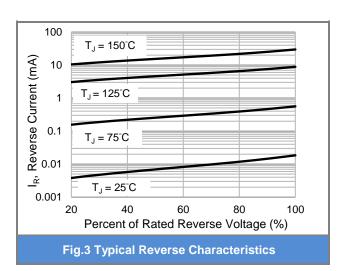
- 1. Mounted on a FR4 PCB, single-sided copper, with 48cm² copper pad area
- 2. Mounted on a FR4 PCB, single-sided copper, standard footprint
- 3. Short duration pulse test used to minimize self-heating effect

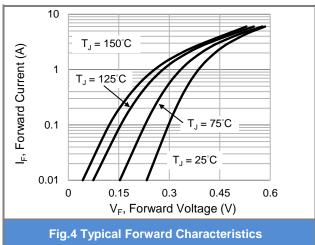


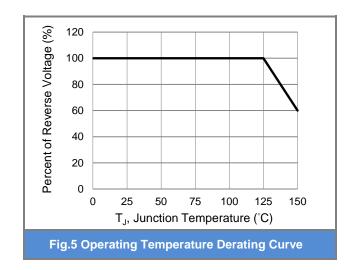
TYPICAL CHARACTERISTIC CURVES









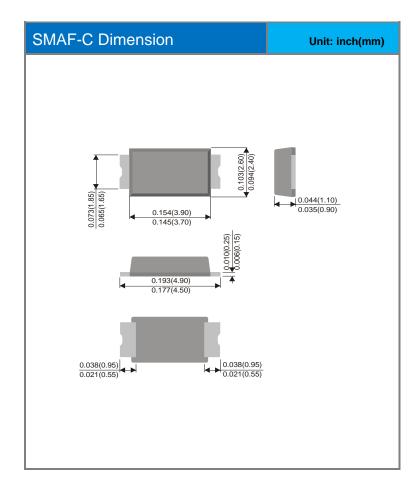


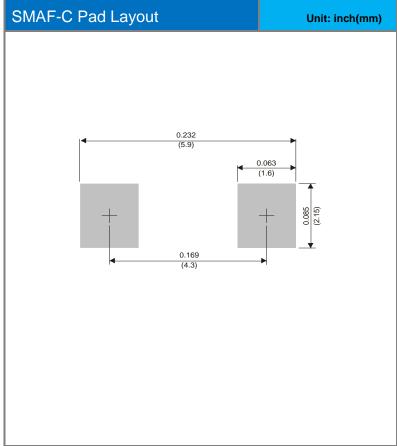


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SB33AFC-AU	SMAF-C	3K pcs / 7" reel	SB33
SB34AFC-AU	SMAF-C	3K pcs / 7" reel	SB34

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 specified use without further testing or modification.			
	• The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-			
	saving or life-sustaining, such as medical instruments, 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				
	use or sale.			
	 Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining. 			
1				