



SB22AFC ~ SB26AFC Series

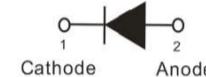
Surface Mount Schottky Barrier Rectifier

Voltage 20~60 V Current 2 A

Features

- 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

SMAF-C



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

PARAMETER	SYMBOL	SB22AFC	SB23AFC	SB24AFC	SB25AFC	SB26AFC	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_R	20	30	40	50	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$			2			A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}			50			A
Instantaneous Forward Voltage at 2A	V_F		0.5		0.7		V
Reverse Current ^(Note 3)	I_R			0.1			mA
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	C_J		98		76		pF
Typical Thermal Resistance <small>(Note 1)</small> <small>(Note 2)</small>	$R_{\theta JL}$		20				$^\circ\text{C}/\text{W}$
	$R_{\theta JA}$		150				
Operating Junction Temperature Range	T_J		-55 to +150				$^\circ\text{C}$
Storage Temperature Range	T_{STG}		-55 to +150				$^\circ\text{C}$

NOTES:

1. Mounted on 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



SB22AFC ~ SB26AFC Series

TYPICAL CHARACTERISTIC CURVES

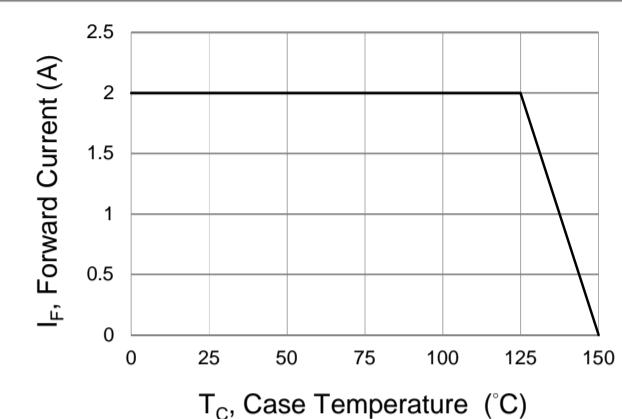


Fig.1 Forward Current Derating Curve

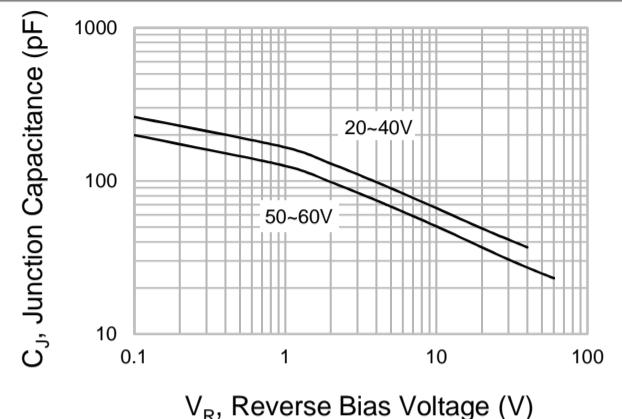


Fig.2 Typical Junction Capacitance

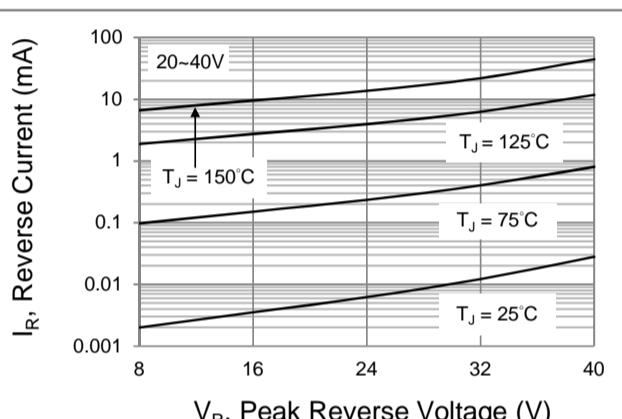


Fig.3 Typical Reverse Characteristics

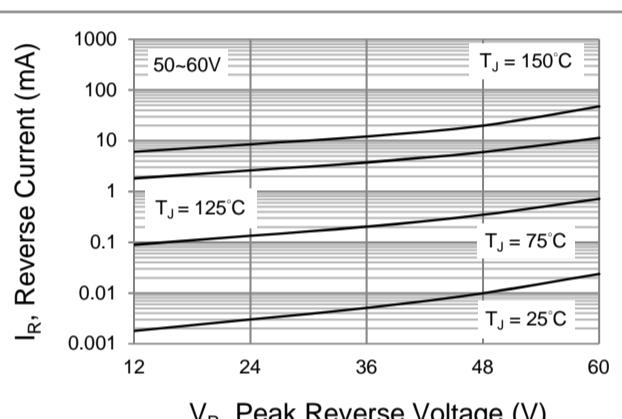


Fig.4 Typical Reverse Characteristics

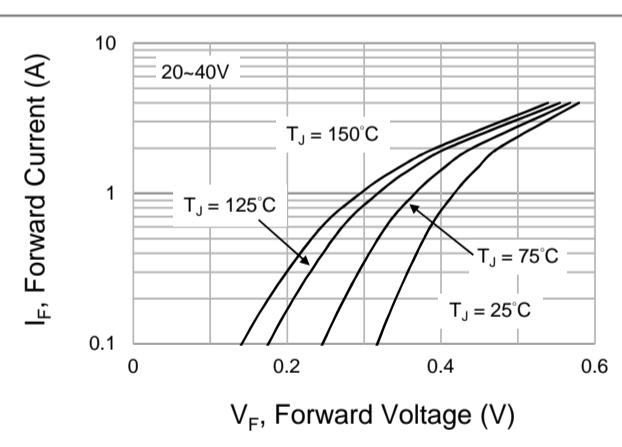


Fig.5 Typical Forward Characteristics

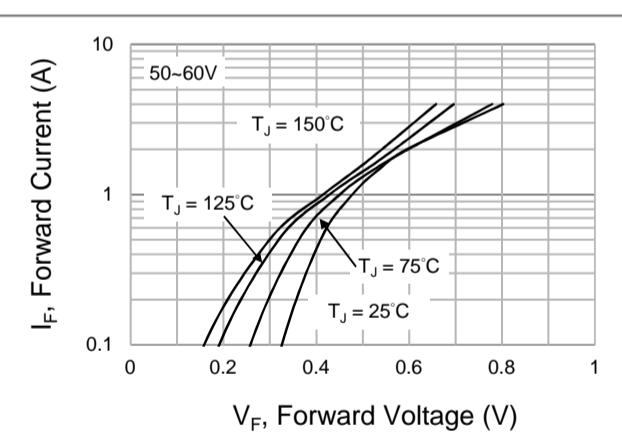


Fig.6 Typical Forward Characteristics

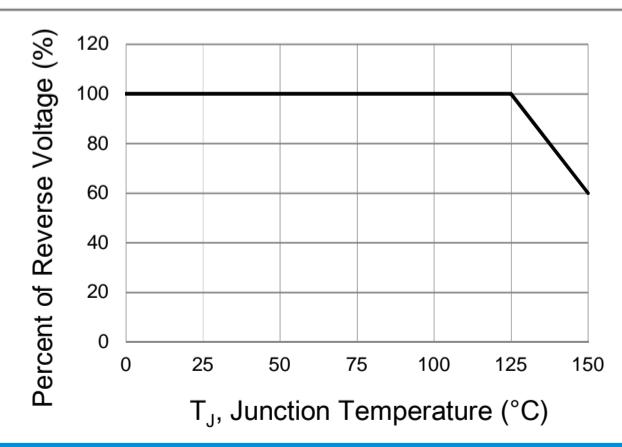


Fig.7 Operating Temperature Derating Curve



SB22AFC ~ SB26AFC Series

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SB22AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB22	Halogen free
SB23AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB23	Halogen free
SB24AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB24	Halogen free
SB25AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB25	Halogen free
SB26AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB26	Halogen free

Packaging Information & Mounting Pad Layout

SMAF-C Dimension	Unit: inch(mm)	SMAF-C Pad Layout	Unit: inch(mm)



SB22AFC ~ SB26AFC Series

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

[SB22AFC_R2_00001](#) [SB23AFC_R2_00001](#) [SB24AFC_R1_00001](#) [SB25AFC_R1_00001](#) [SB26AFC_R1_00001](#)