



Surface Mount Schottky Barrier Rectifier

Voltage 30~40 V Current 5 A

Features

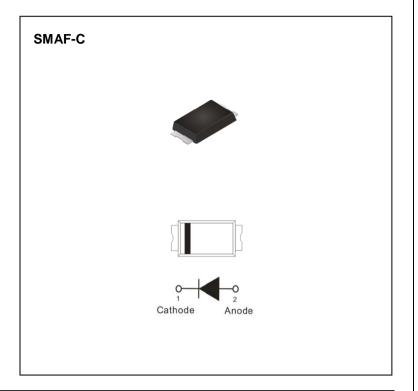
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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	SB53AFC-AU	SB54AFC-AU	UNIT
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	30	40	V
Maximum RMS Voltage		V _{RMS}	21	28	V
Maximum DC Blocking Voltage		V _R	30	40	V
Maximum Average Forward Rectified Current		I _{F(AV)}	5		А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed		Ігѕм	100		А
On Rated Load		VF	2-1		.,
Forward Voltage at 5A	Forward Voltage at 5A		0.54		V
Reverse Current(Note 3)	T _J = 25 °C	I _R	100		uA
	T _J = 100 °C		30		mA
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 10V$		Сл	159		pF
Typical Thermal Resistance (Note 1) (Note 2)		R _{θJL}	15 150		°C/W
Operating Junction Temperature Range		TJ	-55 to +150		°C
Storage Temperature Range		T _{STG}	-55 to	-55 to +150	

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² 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

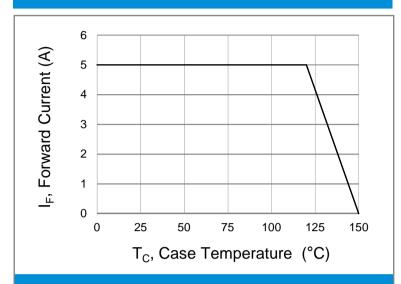


Fig.1 Forward Current Derating Curve

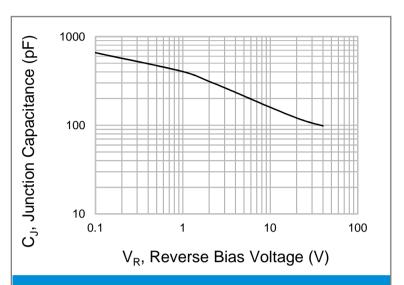


Fig.2 Typical Junction Capacitance

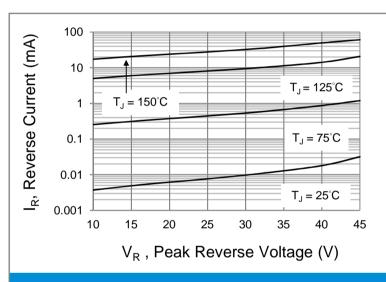


Fig.3 Typical Reverse Characteristics

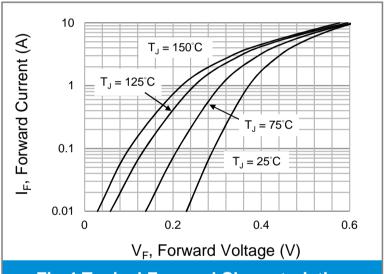


Fig.4 Typical Forward Characteristics

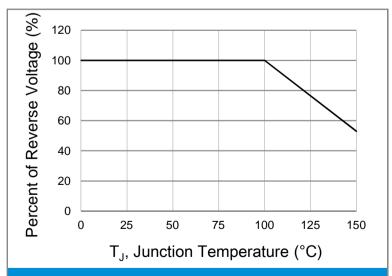


Fig.5 Operating Temperature Derating Curve

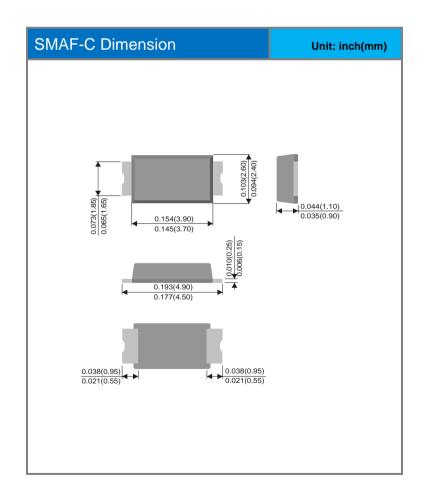


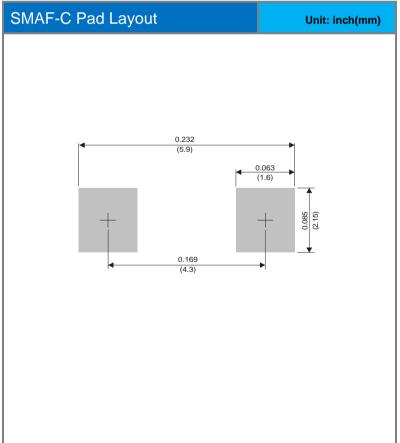


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SB53AFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	SB53	Halogen free
SB54AFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	SB54	Halogen free

Packaging Information & Mounting Pad Layout









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