



Surface Mount Schottky Barrier Rectifier

Voltage 20~60 V Current 5 A

Features

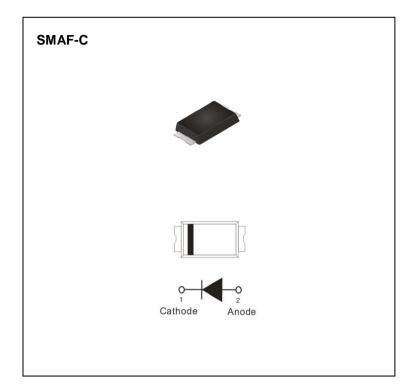
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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	SB52AFC	SB53AFC	SB54AFC	SB56AFC	UNIT
Maximum Recurrent Peak Reverse Voltage		Vrrm	20	30	40	60	V
Maximum RMS Voltage		V_{RMS}	14	21	28	42	V
Maximum DC Blocking Voltage		V _R	20	30	40	60	V
Maximum Average Forward Rectified Current		I _{F(AV)}	5				
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load		Ігѕм	100				А
Instantaneous Forward Voltage at 5A		VF	0.54 0.66				V
Reverse Current(Note 3)	T _J =25 °C	I _R	100				uA
Reverse Current(Note 3)	T _J =100 °C	I _R	30 20		20	mA	
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 10V		Сл	159 125			125	pF
Typical Thermal Resistance (Note 1) (Note 2)		$R_{ heta J A}$	15 150				°C/W
Operating Junction Temperature Range		TJ	-55 to +150				°C
Storage Temperature Range		T _{STG}	-55 to +150				°C

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

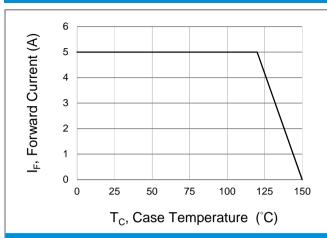


Fig.1 Forward Current Derating Curve

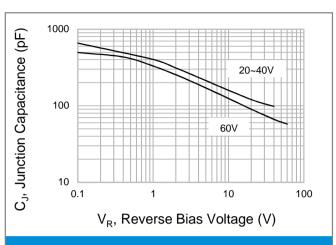


Fig.2 Typical Junction Capacitance

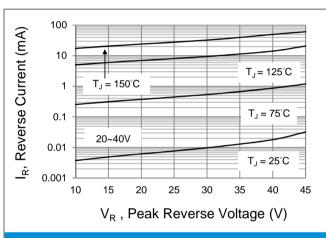


Fig.3 Typical Reverse Characteristics

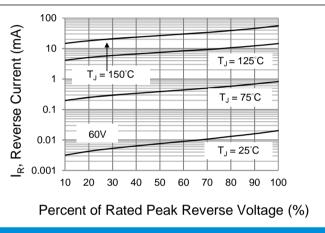


Fig.4 Typical Reverse Characteristics

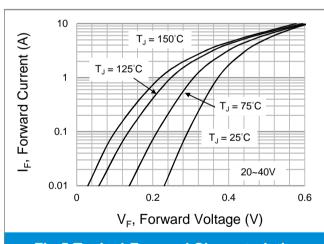
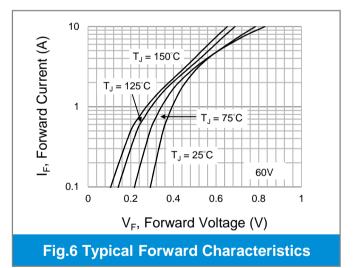


Fig.5 Typical Forward Characteristics



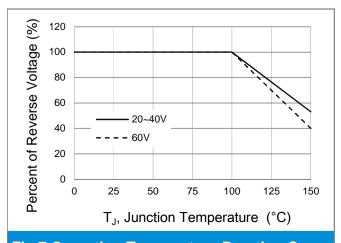


Fig.7 Operating Temperature Derating Curve

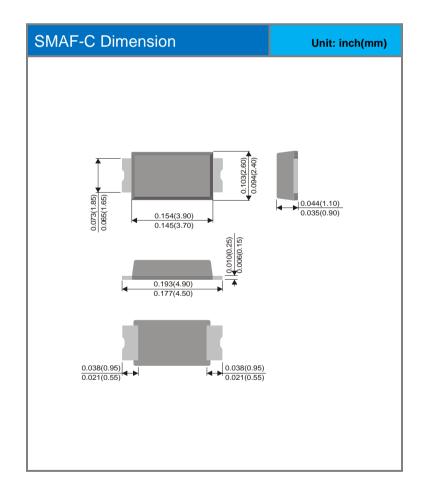


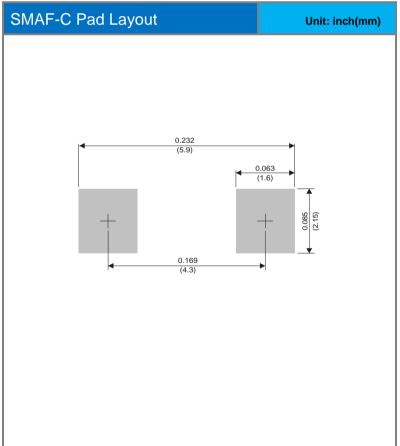


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SB52AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB52	Halogen free
SB53AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB53	Halogen free
SB54AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB54	Halogen free
SB56AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SB56	Halogen free

Packaging Information & Mounting Pad Layout









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