



SBA540AFC-AU

Surface Mount Extreme Low Vf Schottky Barrier Rectifier

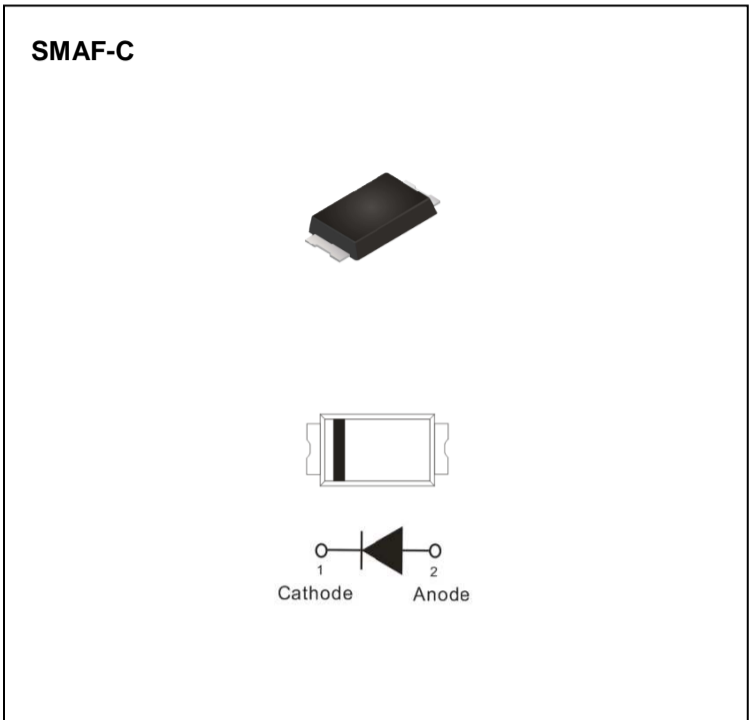
Voltage	40 V	Current	5 A
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Features

- Extreme low forward voltage drop
- Low power loss, high efficiency
- 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 (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	SBA540AFC-AU	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _R	40	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	80	A
Typical Thermal Resistance	(Note 1) R _{θJA}	150	°C/W
	(Note 2) R _{θJC}	15	
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION	SBA540AFC-AU		UNITS
			TYP.	MAX.	
Forward Voltage	V _F	I _F = 10mA	0.17	-	V
		I _F = 2A	0.36	-	
		I _F = 5A	-	0.49	
		I _F = 10mA	0.05	-	V
I _F = 2A	0.29	-			
Reverse Current ^(Note 3)	I _R	V _R = 10V	25	-	uA
		V _R = 20V	32	-	
		V _R = 30V	55	-	
		V _R = 40V	-	250	
		V _R = 20V	8	-	mA
		V _R = 30V	12	-	
V _R = 40V	19	-			

- Note : 1. Mounted on a FR4 PCB, single-sided copper, standard footprint
 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
 3. Short duration pulse test used to minimize self-heating effect



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TYPICAL CHARACTERISTIC CURVES

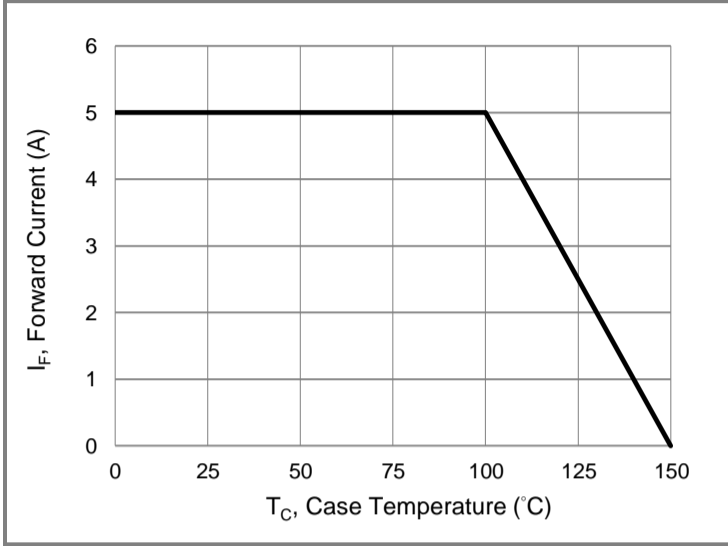


Fig.1 Forward Current Derating Curve

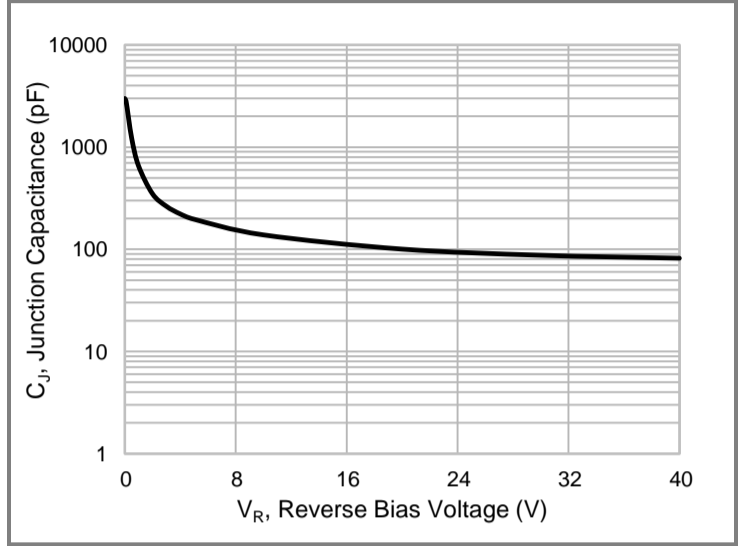


Fig. 2 Typical Junction Capacitance

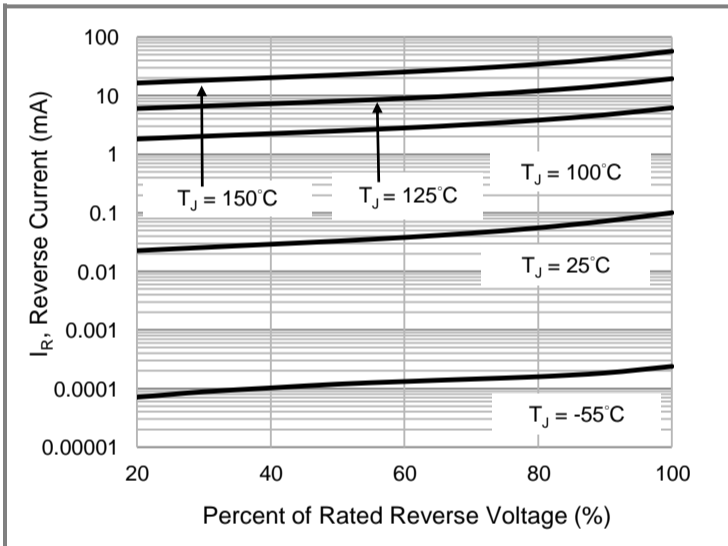


Fig.3 Typical Reverse Characteristics

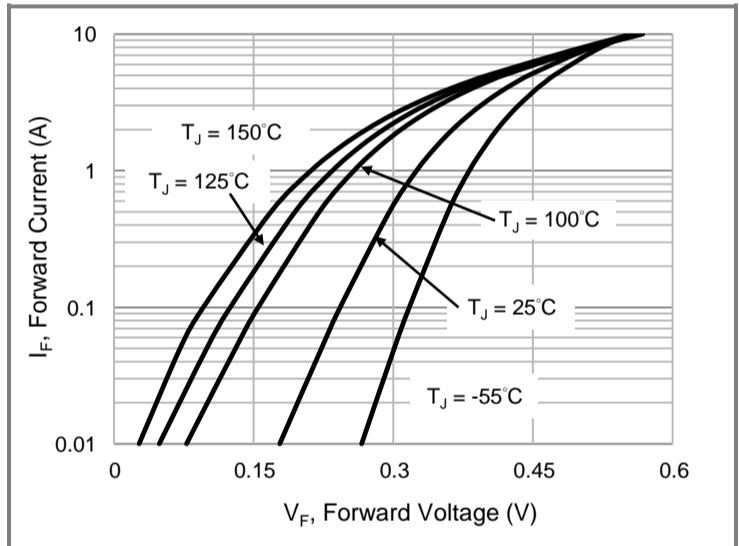


Fig.4 Typical Forward Characteristics

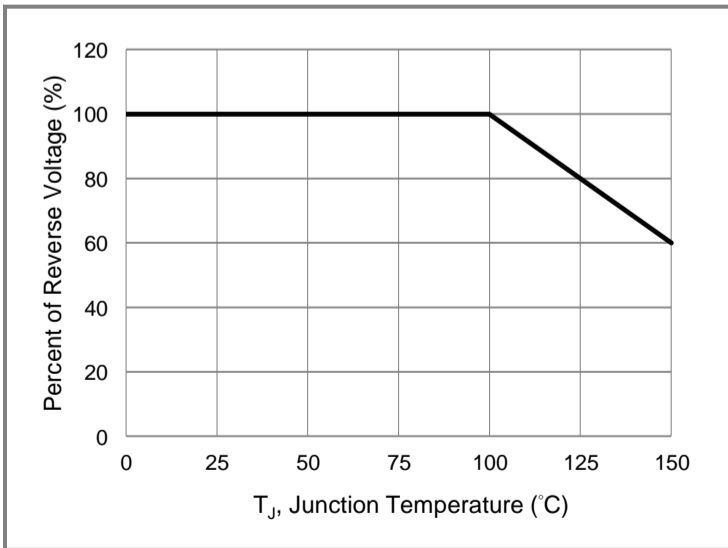


Fig.5 Operating Temperature Derating Curve

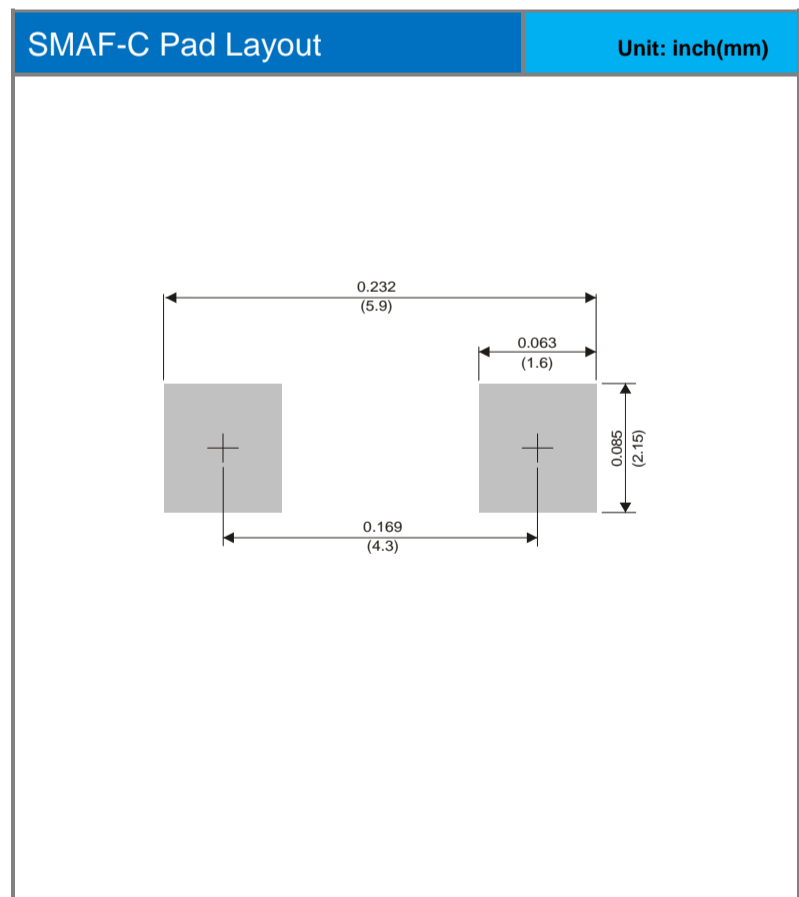
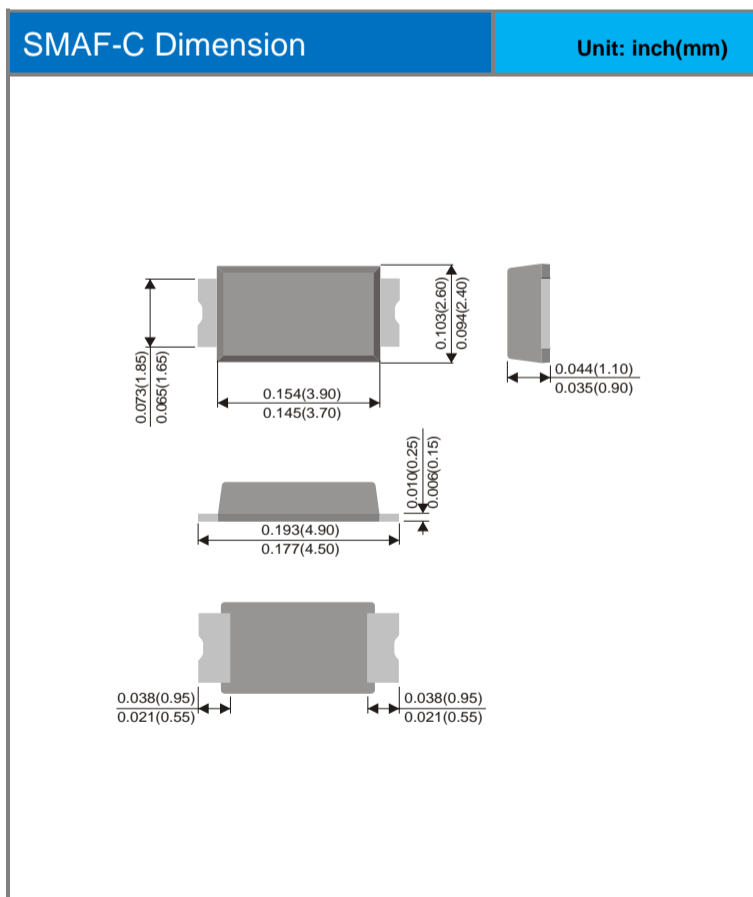


SBA540AFC-AU

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SBA540AFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	SBA540	Halogen free

Packaging Information & Mounting Pad Layout





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