



Surface Mount Extreme Low Vf Schottky Barrier Rectifier

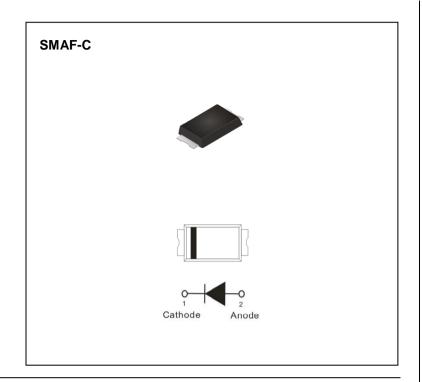
Voltage 20~40 V Current 5 A

Features

- Extreme low forward voltage drop
- Low power loss, high efficiency
- 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	SBA520AFC	SBA530AFC	SBA540AFC	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	20 30		V
Maximum RMS Voltage	V _{RMS}	14 21		28	V
Maximum DC Blocking Voltage	VR	20	30	40	V
Maximum Average Forward Rectified Current	I _{F(AV)}		Α		
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	Ігэм	80			
Typical Thermal Resistance (Note 2) (Note 1)	Rejc Reja	15 150			°C/W
Operating Junction Temperature Range	TJ	-55 to +150			°C
Storage Temperature Range	T _{STG} -55 to +150		°C		

Electrical Characteristics

DADAMETER	SYMBOL TE	TEST OO	FEST COMPLETION		SBA520AFC		SBA530AFC		SBA540AFC	
PARAMETER		TEST CONDITION		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	UNITS
Forward Voltage	V _F I	I _F = 10mA	T _J =25 °C	0.17	-	0.17	-	0.17	-	V
		I _F = 2A		0.34	-	0.35	-	0.36	-	
		I _F = 5A		-	0.45	-	0.46	-	0.49	
		I _F = 10mA	T _J =125 °C	0.04	-	0.04	-	0.05	-	V
		I _F = 2A		0.25	-	0.27	-	0.29	-	
Reverse Current ^(Note 3)	$V_{R} = V_{R} = V_{R$	V _R = 10V	Т _J =25°С	47	-	33	-	25	-	μА
		V _R = 20V		-	300	51	-	32	-	
		$V_{R} = 30V$		-	-	-	300	55	-	
		V _R = 40V		-	-	-	-	-	250	
		V _R = 20V	T _J =125 °C	21	-	11	-	8	-	mA
		V _R = 30V		-	-	19	-	12	-	
		V _R = 40V		-	-	-	-	19	-	

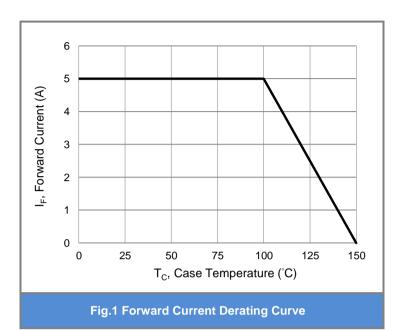
Note: 1. Mounted on a FR4 PCB, single-sided copper, standard footprint

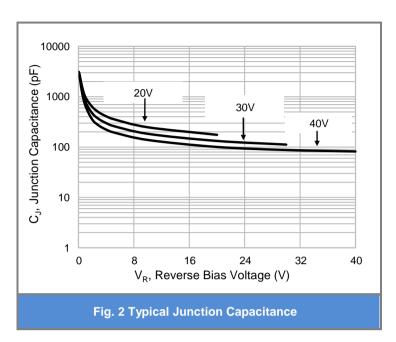
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect

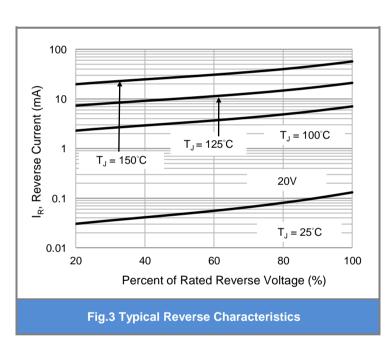


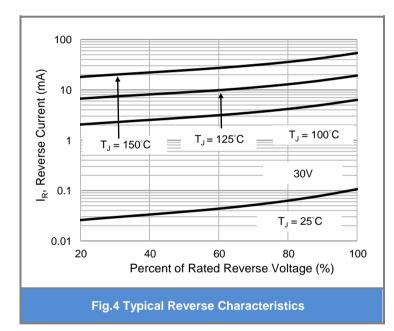


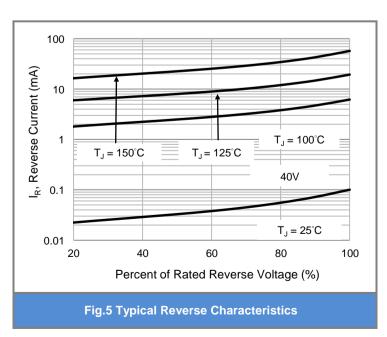
TYPICAL CHARACTERISTIC CURVES

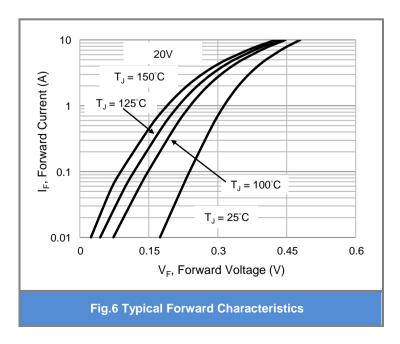








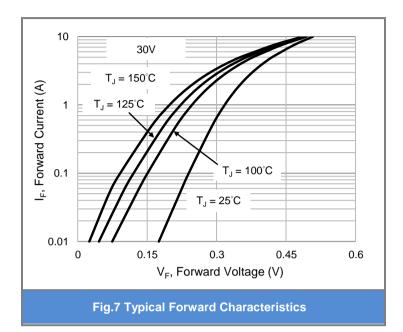


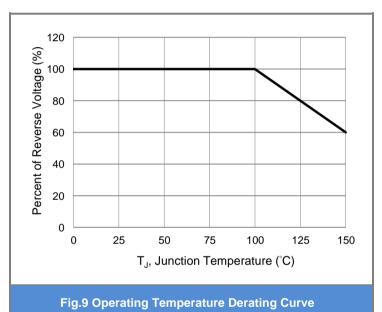


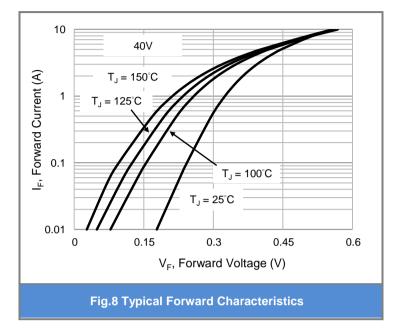




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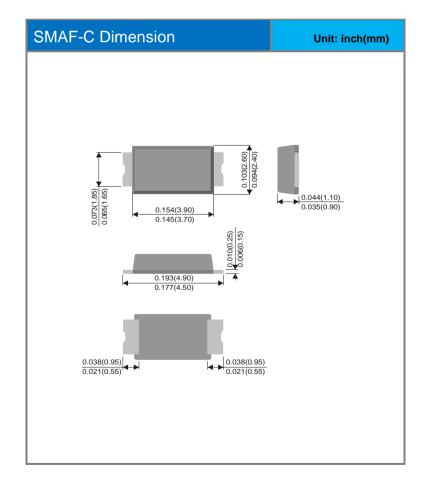


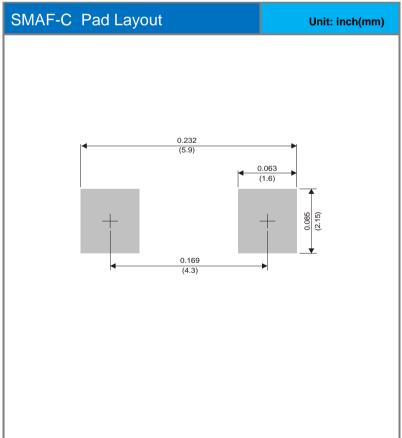


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SBA520AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SBA520	Halogen free
SBA530AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SBA530	Halogen free
SBA540AFC_R1_00001	SMAF-C	3K pcs / 7" reel	SBA540	Halogen free

Packaging Information & Mounting Pad Layout









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