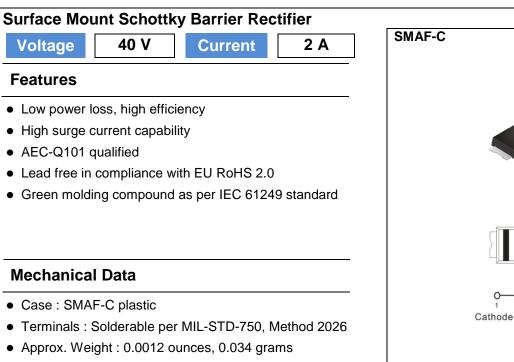
PAN	JIT
	SEMI
	CONDUCTOR

Anode

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Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	40	V
Maximum RMS Voltage	V _{RMS}	V _{RMS} 28	
Maximum DC Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Rectified Current	IF(AV)	2	А
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	50	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	98	pF
(Note 1)	R _{0JA}	150	
Typical Thermal Resistance (Note 2)	R _{0JA}	83	°C/W
(Note 2)	R _{0JL}	20	
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +150	°C



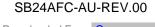
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Electrical Characteristics (T_A = 25^oC unless otherwise noted)

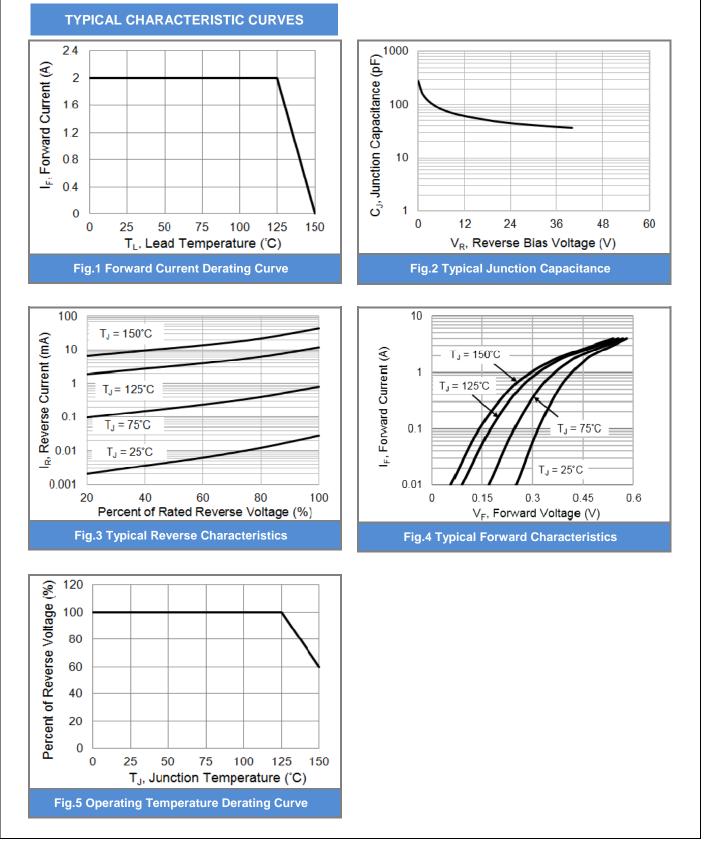
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 0.5 A, T _J = 25 °C	-	0.32	-	V
		I _F = 2 A, T _J = 25 °C	-	-	0.5	
		I⊧ = 0.5 A, TJ = 125 °C	-	0.26	-	
		I _F = 2 A, T _J = 125 °C	-	0.41	-	
Reverse Current ^(Note 3)	IR	V _R = 32 V, T _J = 25 °C	-	12	-	uA
		V _R = 40 V, T _J = 25 °C	-	-	100	
		V _R = 40 V, T _J = 125 °C	-	12	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint
- 2. Mounted on a FR4 PCB, single-sided copper, with 48 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect



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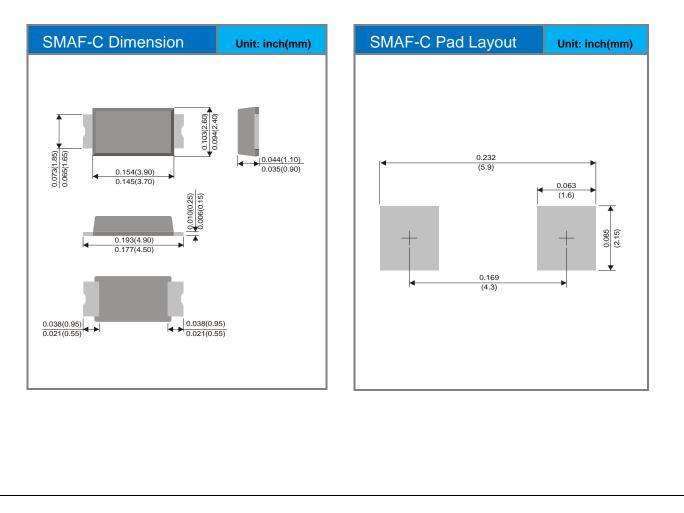


SB24AFC-AU

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SB24AFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	SB24	Halogen free

Packaging Information & Mounting Pad Layout



August 3,2020



SB24AFC-AU

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