SBM36VAFC	
Surface Mount Extreme Low Vf Schottky BarriVoltage60 VCurrent3 A	ier Rectifier
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 : SMAF-C plastic	Cathode Anode
• Terminals : Solderable per MIL-STD-750, Method 2026	

• Approx. Weight : 0.0012 ounces, 0.034 grams

Maximum Ratings and Thermal Characteristics (T_A = 25^oC unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	60	V
Maximum RMS Voltage	Vrms	42	V
Maximum DC Blocking Voltage	VR	60	V
Maximum Average Forward Rectified Current	IF(AV)	3	А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	80	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	CJ	200	pF
Typical Thermal Resistance (Note 1) (Note 2)	Reja Rejc	150 20	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	٥C



Electrical Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.34	-	V
		I _F = 3 A, T _J = 25 °C	-	0.45	0.5	
		I _F = 1 A, T _J = 125 °C	-	0.27	-	
		I _F = 3 A, T _J = 125 °C	-	0.43	-	
Reverse Current ^(Note 3)	I _R	V _R = 48 V, T _J = 25 °C	-	35	-	uA
		V _R = 60 V, T _J = 25 °C	-	-	220	
		V _R = 60 V, T _J = 125 °C	-	10	-	mA

NOTES:

- 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



3.5 I_F, Forward Current (A) 3 2.5 2 1.5 1 0.5 0 0 25 50 75 100 125 150 T_{C} , Case Temperature (°C)

TYPICAL CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

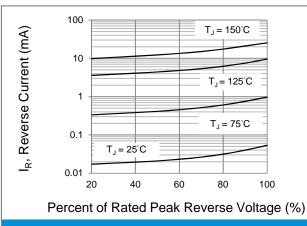
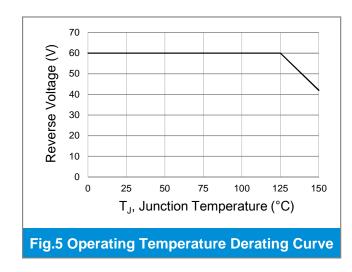


Fig.3 Typical Reverse Characteristics



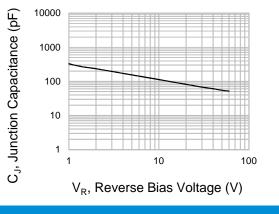
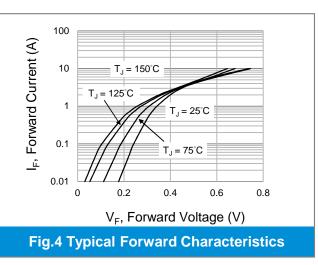


Fig.2 Typical Junction Capacitance

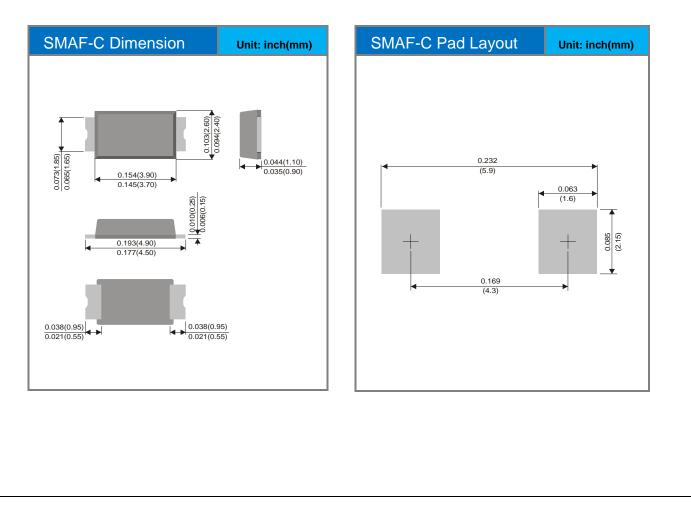




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SBM36VAFC_R1_00001	SMAF-C	3K pcs / 7" reel	SBM36V	Halogen free

Packaging Information & Mounting Pad Layout





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