

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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	60	V
Maximum Rms Voltage	Vrms	42	V
Maximum Dc Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Current	IF(AV)	3	А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	IFSM	80	A
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	200	pF
(Note 1) Typical Thermal Resistance (Note 2)	Reja Rejc	150 20	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	Тѕтд	-55~150	°C



SBM36VAFC-AU

Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage		I _F = 1 A, T _J = 25 °C	-	0.34	-	V
		I _F = 3 A, T _J = 25 °C	-	-	0.50	
	VF	I⊧ = 1 A, TJ = 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

SEMI CONDUCTOR

ΡΛΝ

SBM36VAFC-AU

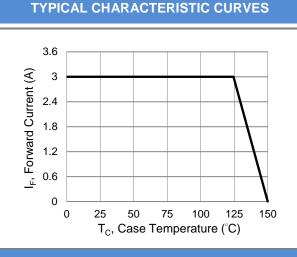


Fig.1 Forward Current Derating Curve

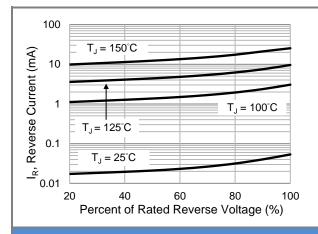
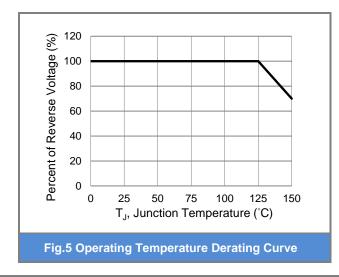


Fig.3 Typical Reverse Characteristics



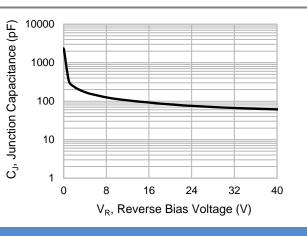


Fig.2 Typical Junction Capacitance

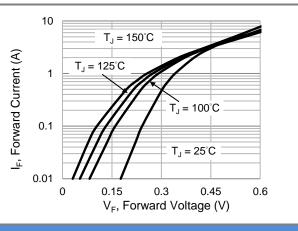


Fig.4 Typical Forward Characteristics

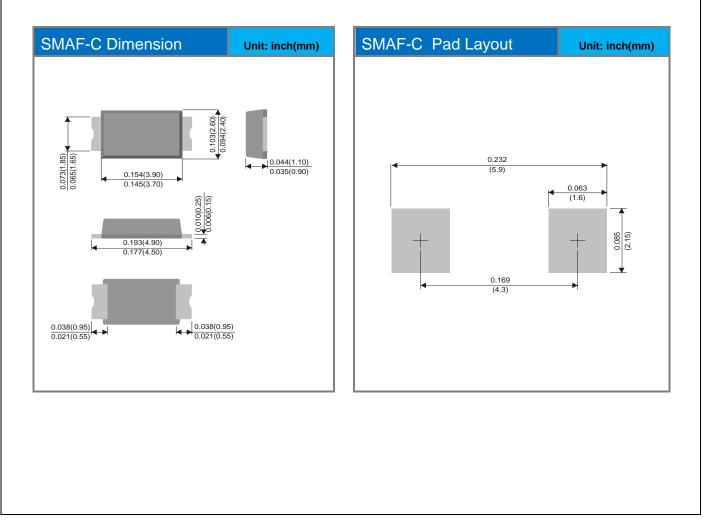


SBM36VAFC-AU

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SBM36VAFC-AU	SMAF-C	3K / 7" Reel	SBM36V

Packaging Information & Mounting Pad Layout





SBM36VAFC-AU

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