



Surface Mount Schottky Barrier Rectifier

Voltage 60 V Current 3 A

Features

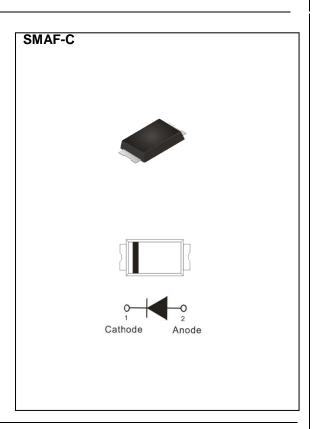
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case : SMAF-C plastic

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.0012 ounces, 0.034 grams



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum Rms Voltage	V _{RMS}	42	V
Maximum Dc Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Current	I _{F(AV)}	3	Α
Peak Forward Surge Current : 8.3ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	80	А
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V	Сл	125	pF
Typical Thermal Resistance (Note 1) (Note 2)	R _{θJA} R _{θJC}	150 20	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





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	-	0.44	1	V
		I _F = 3 A, T _J = 25 °C	-	ı	0.75	
		I _F = 1 A, T _J = 125 °C	-	0.38	-	
		I _F = 3 A, T _J = 125 °C	-	0.56	-	
Reverse Current ^(Note 3)	I _R	V _R = 48 V, T _J = 25 °C	-	8.1	ı	uA
		V _R = 60 V, T _J = 25 °C	-	i	100	
		V _R = 60 V, T _J = 125 °C	-	6	ı	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





TYPICAL CHARACTERISTIC CURVES

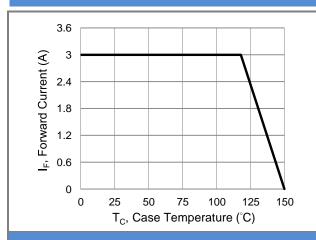


Fig.1 Forward Current Derating Curve

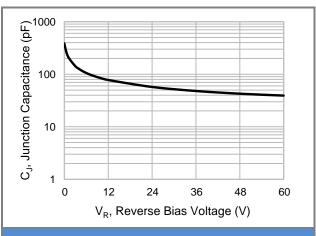


Fig.2 Typical Junction Capacitance

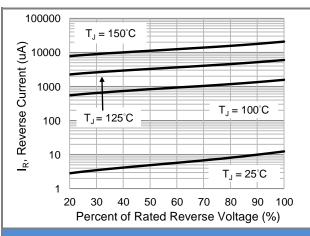


Fig.3 Typical Reverse Characteristics

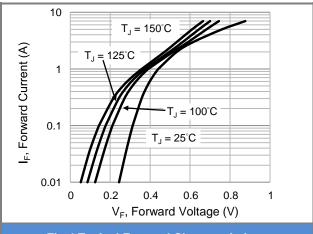


Fig.4 Typical Forward Characteristics

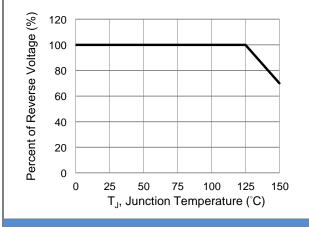


Fig.5 Operating Temperature Derating Curve

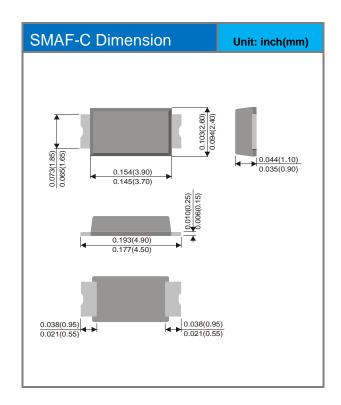


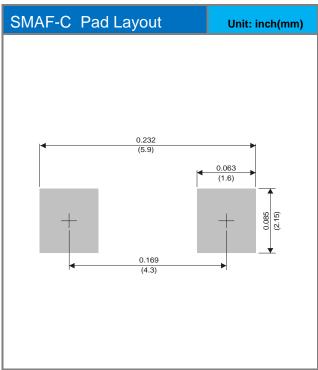


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
SB36AFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	SB36	Halogen free

Packaging Information & Mounting Pad Layout









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