



Surface Mount Fast Recovery Rectifier

Voltage 50~600 V

Current

2 A

Features

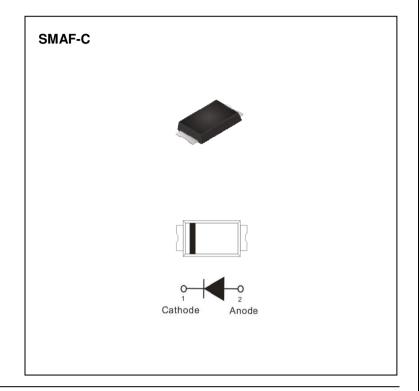
- Glass passivated chip junction
- Fast reverse recovery time
- Low forward voltage drop
- Low switching losses, high efficiency
- High forward surge capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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

PARAMETER	SYMBOL	FR2AAFC	FR2BAFC	FR2DAFC	FR2GAFC	FR2JAFC	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _R	50	100	200	400	600	V
Maximum Average Forward Rectified Current	l _{F(AV)}	2					А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	Ігэм	50				А	
Forward Voltage at 2A	VF	1.3				V	
Reverse Current	I _R	1				uA	
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	Сл	24 14				pF	
Reverse Recovery Time(Note 1)	T _{RR}	150 250				250	ns
Typical Thermal Resistance (Note 2) (Note 3)	R _{0JL} R _{0JA}	22 150				°C/W	
Operating Junction Temperature Range	TJ	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150			°C		

NOTES:

- 1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, Recover to 0.25A
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.
- 3. Mounted on a FR4 PCB, single-sided copper, standard footprint





RATING AND CHARACTERISTIC CURVES

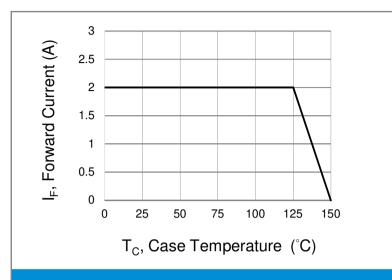


Fig.1 Forward Current Derating Curve

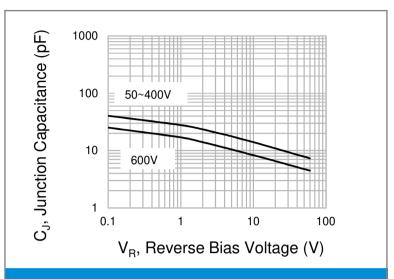


Fig.2 Typical Junction Capacitance

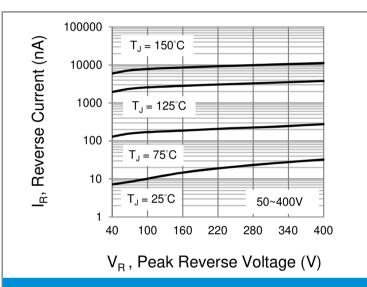


Fig.3 Typical Reverse Characteristics

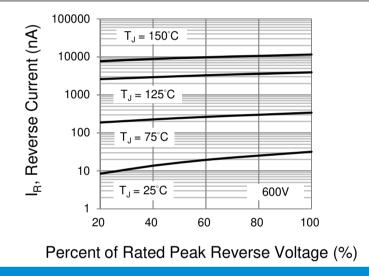
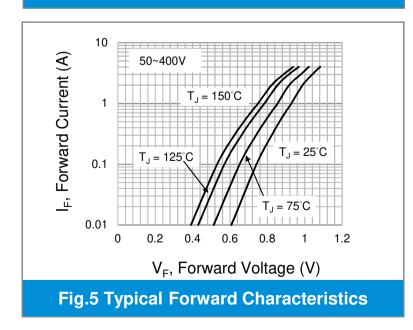
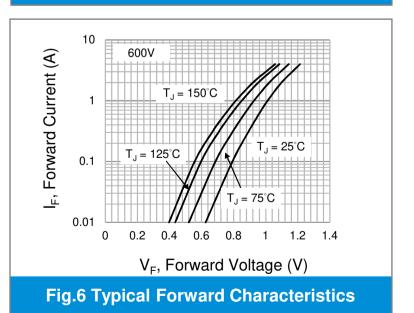


Fig.4 Typical Reverse Characteristics





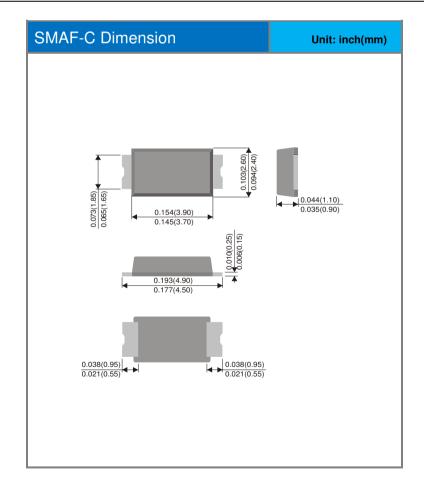


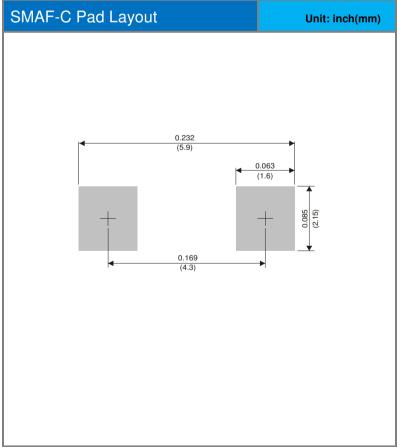


Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
FR2AAFC_R1_00001	SMAF-C	3K pcs / 7" reel	FR2A	Halogen free
FR2BAFC_R1_00001	SMAF-C	3K pcs / 7" reel	FR2B	Halogen free
FR2DAFC_R1_00001	SMAF-C	3K pcs / 7" reel	FR2D	Halogen free
FR2GAFC_R1_00001	SMAF-C	3K pcs / 7" reel	FR2G	Halogen free
FR2JAFC_R1_00001	SMAF-C	3K pcs / 7" reel	FR2J	Halogen free

Packaging Information & Mounting Pad Layout









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