



FR2AAFC ~ FR2J AFC Series

Surface Mount Fast Recovery Rectifier

Voltage

50~600 V

Current

2 A

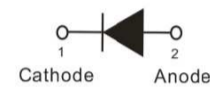
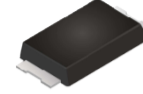
Features

- 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

SMAF-C



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

PARAMETER	SYMBOL	FR2AAFC	FR2BAFC	FR2DAFC	FR2GAFC	FR2J AFC	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	I _{F(AV)}	2					A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	50					A
Forward Voltage at 2A	V _F	1.3					V
Reverse Current	I _R	1					uA
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4V	C _J	24				14	pF
Reverse Recovery Time ^(Note 1)	T _{RR}	150				250	ns
Typical Thermal Resistance ^(Note 2)	R _{θJL}	22					°C/W
^(Note 3)	R _{θJA}	150					
Operating Junction Temperature Range	T _J	-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



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RATING AND CHARACTERISTIC CURVES

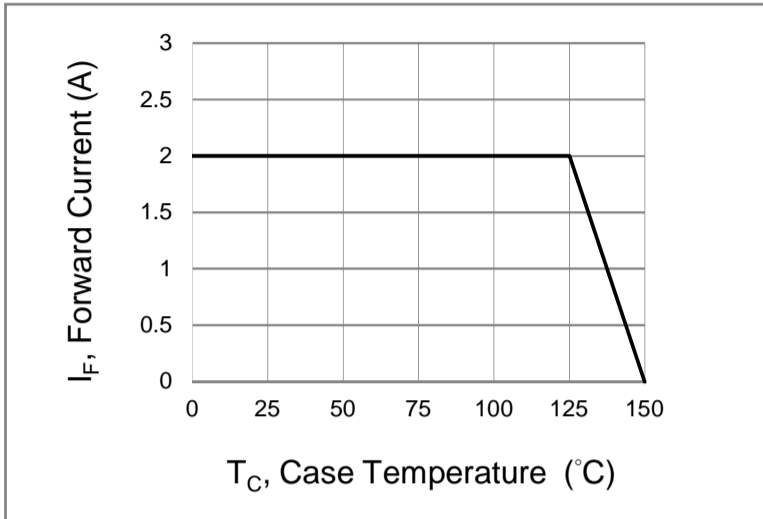


Fig.1 Forward Current Derating Curve

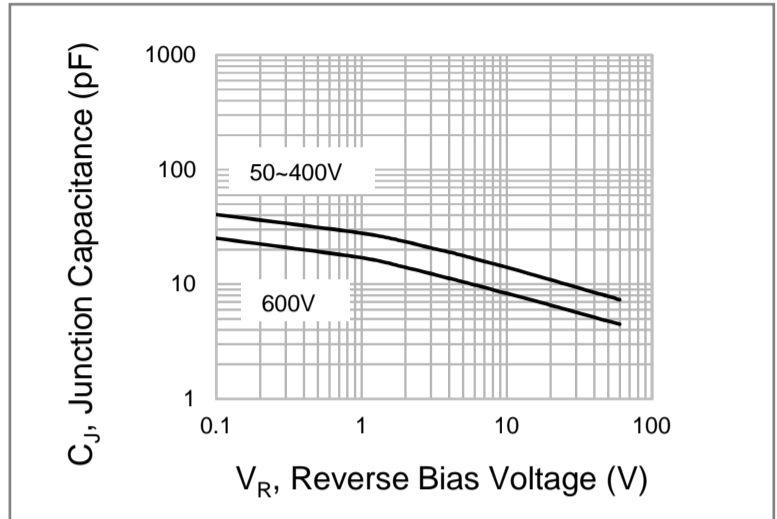


Fig.2 Typical Junction Capacitance

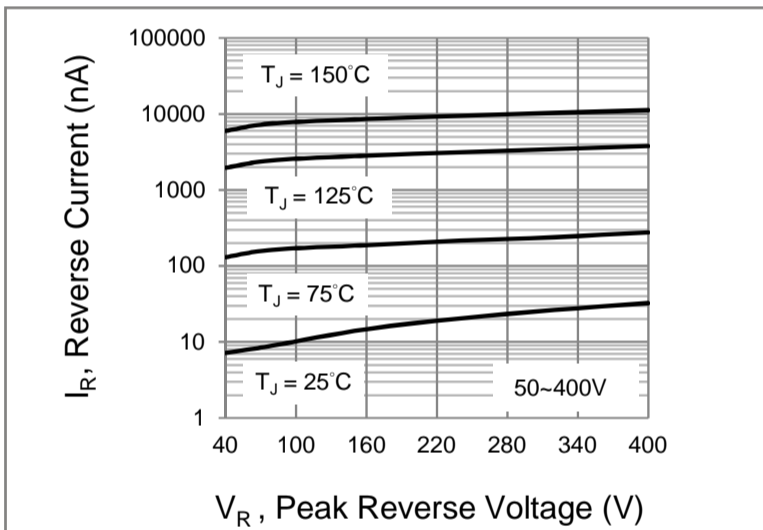


Fig.3 Typical Reverse Characteristics

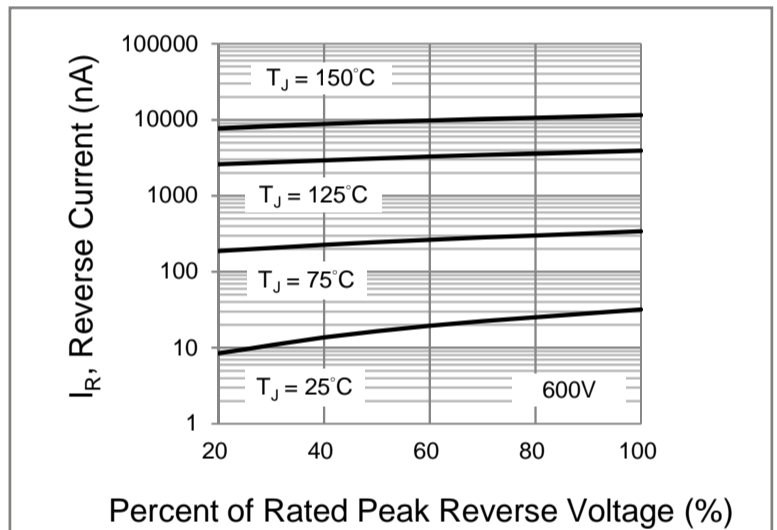


Fig.4 Typical Reverse Characteristics

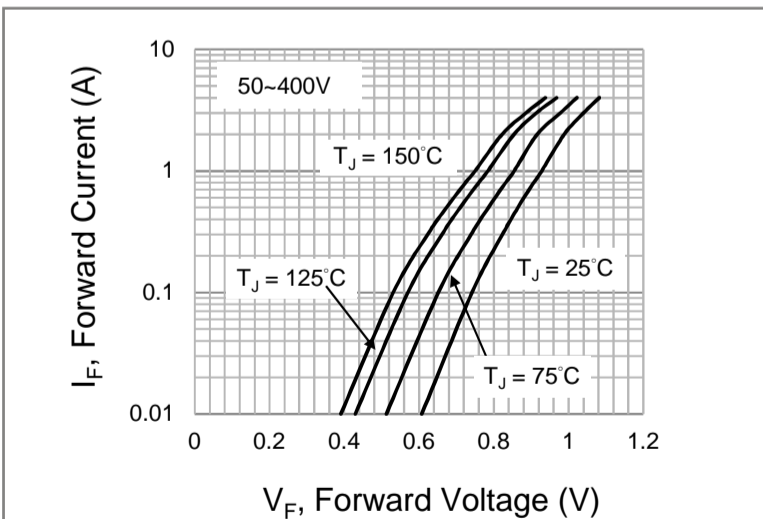


Fig.5 Typical Forward Characteristics

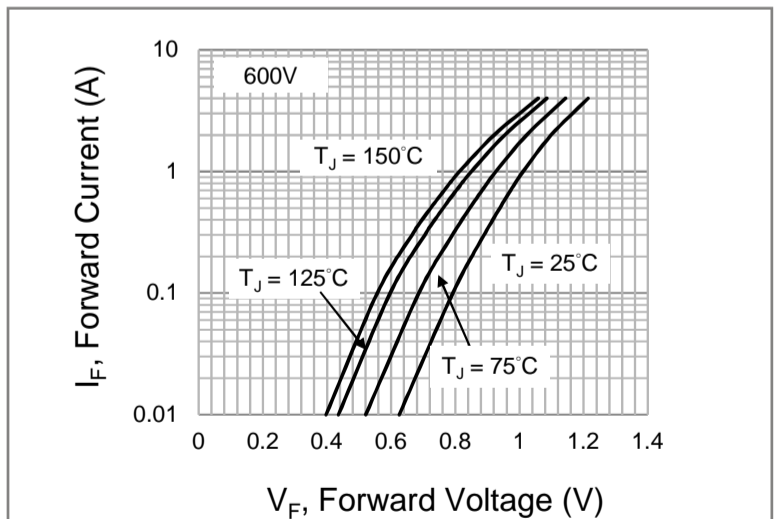


Fig.6 Typical Forward Characteristics

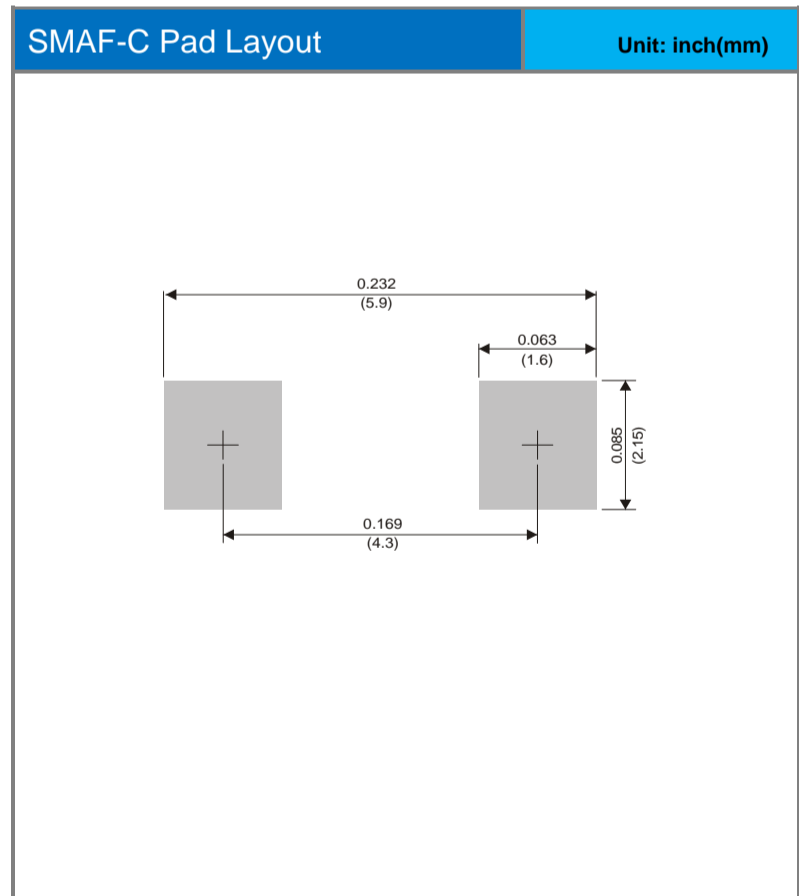
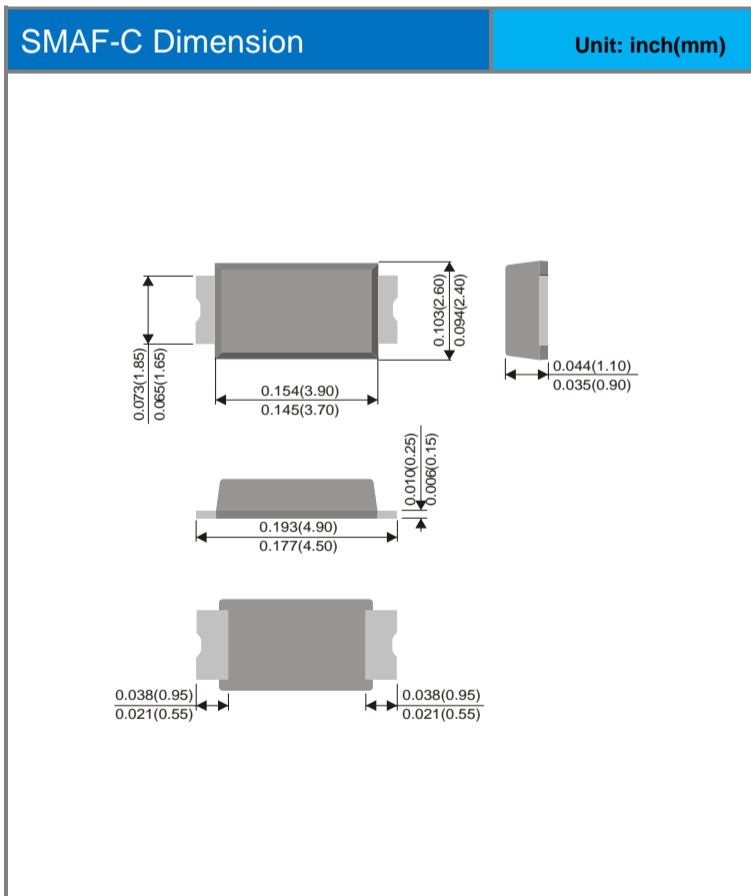


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Part No. Packing Code Version

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
FR2J AFC_R1_00001	SMAF-C	3K pcs / 7" reel	FR2J	Halogen free

Packaging Information & Mounting Pad Layout





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