

SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE

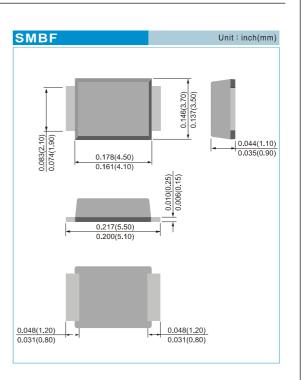
FEATURES

- For surface mounted applications
- Low profile package
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Glass passivated junction
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std

50 to 600 Volt

MECHANICAL DATA

- Case: SMBF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounce, 0.05 grams
- · Polarity: Color band denotes cathode end



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

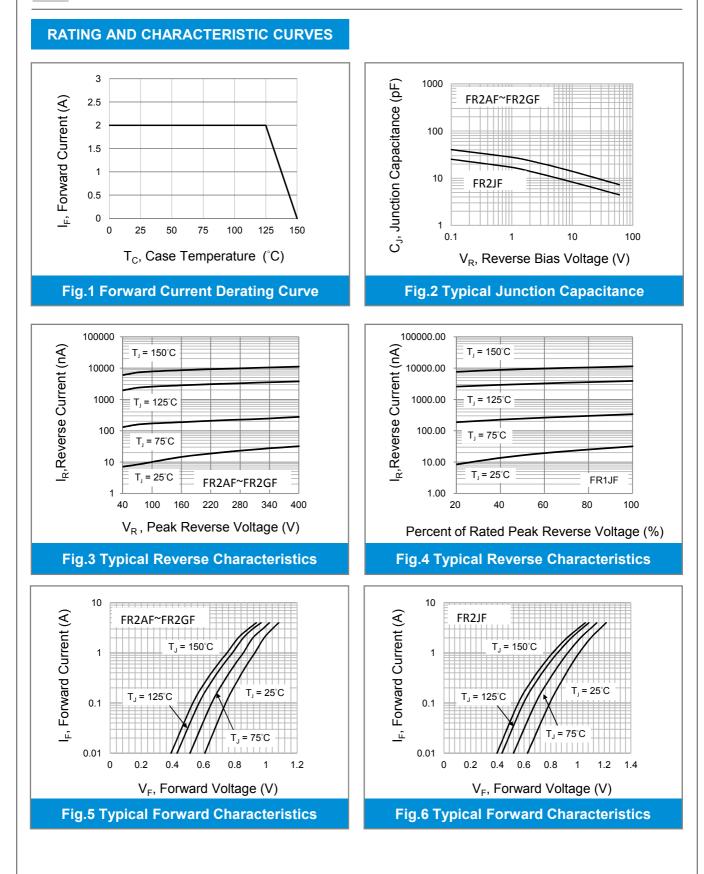
2 Ampere

PARAMETER	SYMBOL	FR2AF	FR2BF	FR2DF	FR2GF	FR2JF	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 _{DC}	50	100	200	400	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0					А
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(per diode)	I _{fsm}	50					А
Maximum Forward Voltage at 2A	V _F	1.3					V
Maximum DC Reverse Current T _J =25°C	I _R	1.0					μA
Typical Junction Capacitance (VR=4V f=1MHZ)	C	24 14				pF	
Typical Thermal Resistance (Note 2 (Note 2		20 135					°C / W
Maximum Reverse Recovery Time	T _{rr}	150			250	nS	
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150				°C	

NOTES : 1. Mounted on an FR4 PCB, single-sided copper, with 48cm² copper pad area.

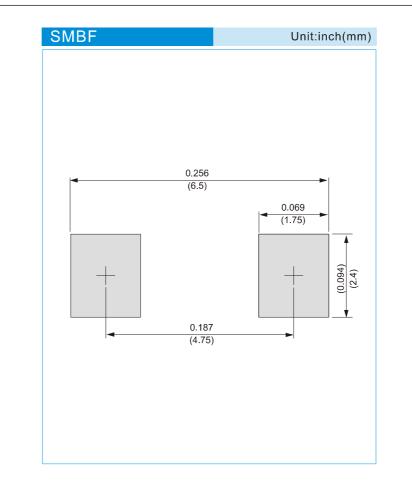
2. Mounted on an FR4 PCB, single-sided copper, mini pad.







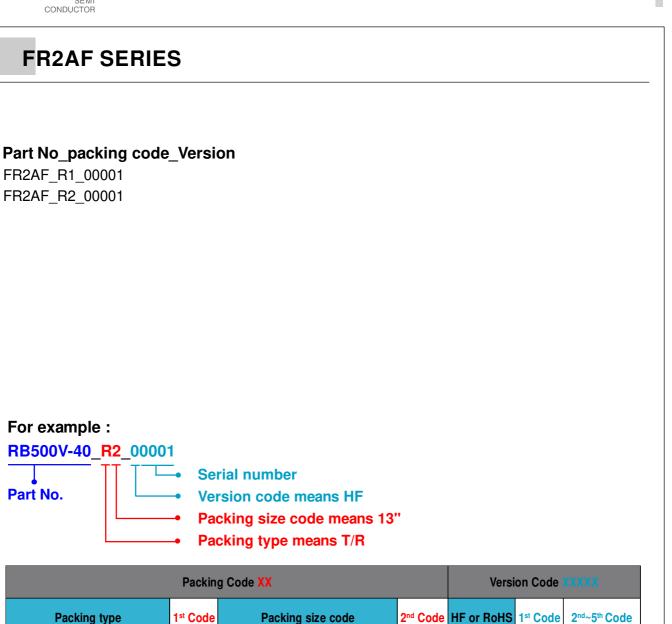
MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
- T/R 5K per 13" plastic Reel





N/A

7"

13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

0

1

2

X

Y

U

D

HF

RoHS

0

1

serial number

serial number

Tape and Ammunition Box

(T/B) Tape and Reel

(T/R) Bulk Packing

(B/P) Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR)

Tape and Reel (Left Oriented)

(TRL)

FORMING

Α

R

В

Т

S

L

F



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