



SURFACE MOUNT FAST RECOVERY RECTIFIER

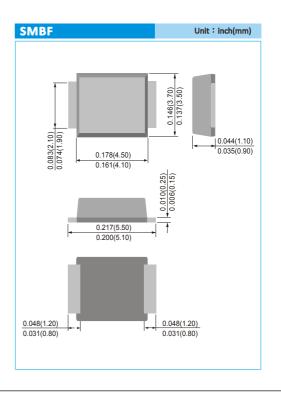
VOLTAGE 50 to 600 Volts CURRENT 2.0 Ampere

FEATURES

- · For surface mounted applications
- · Low profile package
- Built-in strain relief
- 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 comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std

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%.

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(JEDEC method)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					μΑ
Typical Junction Capacitance (VR=4V f=1MHZ)	CJ	24				14	pF
Typical Thermal Resistance (Note 1) (Note 2)		20 135				°C / W	
Maximum Reverse Recovery Time	T _{rr}		1	50		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.





RATING AND CHARACTERISTIC CURVES

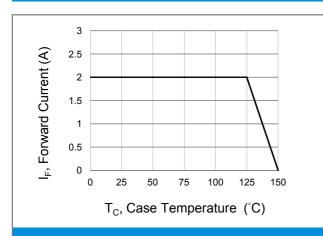


Fig.1 Forward Current Derating Curve

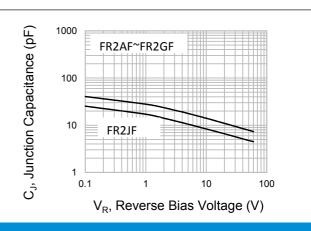


Fig.2 Typical Junction Capacitance

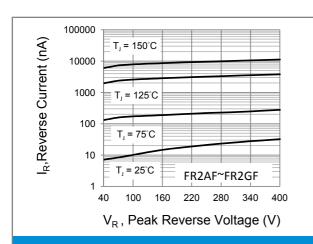


Fig.3 Typical Reverse Characteristics

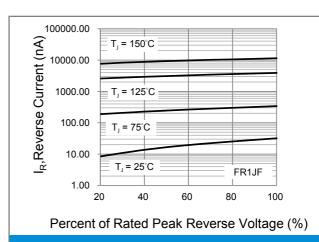


Fig.4 Typical Reverse Characteristics

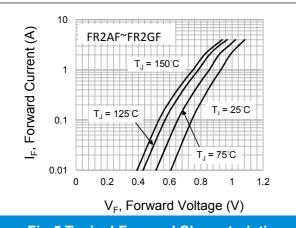


Fig.5 Typical Forward Characteristics

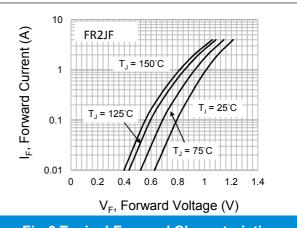
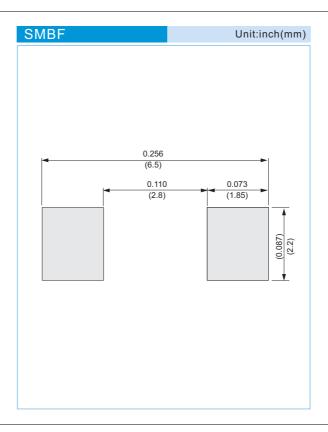


Fig.6 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 5K per 13" plastic Reel

LEGAL STATEMENT

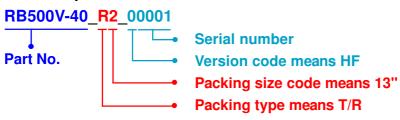
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For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
T/B	Α	N/A	0	HF	0	serial number		
T/R	R	7"	1	RoHS	1	serial number		
B/P	В	13"	2					
T/P	Т	26mm	X					
TRR	S	52mm	Y					
TRL	L	PBCU	U					
FORMING	F	PBCD	D					

Part No_packing code_Version

FR2AF_R1_00001 FR2AF_R2_00001