



SURFACE MOUNT FAST RECOVERY RECTIFIER

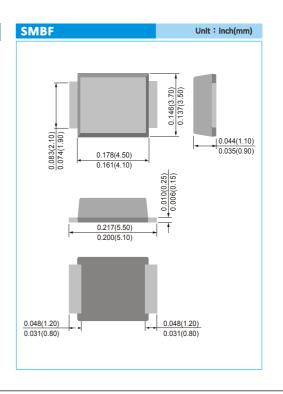
VOLTAGE 50 to 600 Volts CURRENT 2.0 Ampere

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%.

SYMBOL	FR2AF	FR2BF	FR2DF	FR2GF	FR2JF	UNITS
V _{RRM}	50	100	200	400	600	V
V _{RMS}	35	70	140	280	420	V
V _{DC}	50	100	200	400	600	V
I _{F(AV)}	2.0					А
I _{FSM}	50					А
V _F	1.3					V
I _R	1.0					μА
CJ	24			14	pF	
	20 135				°C / W	
T _{rr}		1	50		250	nS
T_J, T_{STG}	-55 to +150				°C	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ \\ I_{F(AV)} \\ \\ I_{FSM} \\ V_{F} \\ \\ I_{R} \\ \\ C_{J} \\ \\ R_{\theta JA} \\ \\ T_{rr} \end{array}$	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} V _F I _R C _J R _{0,JA} T _{rr}	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} V _F I _R C _J R _{0JL} R _{0JA} T _{rr} 1	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{F(AV)} 2.0 I _{FSM} 50 V _F 1.3 I _R 1.0 C _J 24 R _{0JL} R _{0JA} R _{0JA} 135 T _{rr} 150	V _{RRM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 I _{F(AV)} 2.0 I _{FSM} 50 V _F 1.3 I _R 1.0 C _J 24 R _{0,JA} 20 R _{0,JA} 135 T _{rr} 150	V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _{F(AV)} 2.0 I _{FSM} 50 V _F 1.3 I _R 1.0 C _J 24 14 R _{0JL} R _{0JA} R _{0JA} 135 T _{rr} 150 250

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.

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RATING AND CHARACTERISTIC CURVES

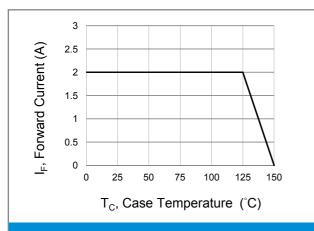


Fig.1 Forward Current Derating Curve

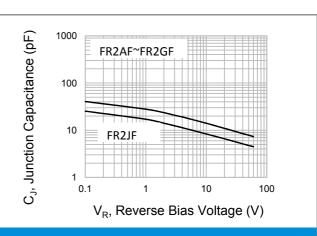


Fig.2 Typical Junction Capacitance

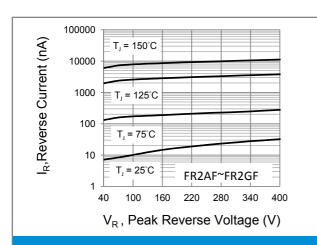


Fig.3 Typical Reverse Characteristics

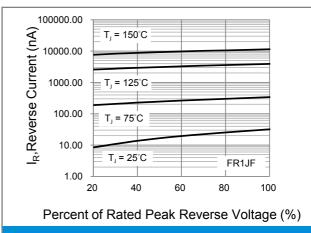
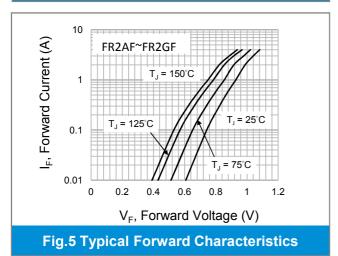


Fig.4 Typical Reverse Characteristics



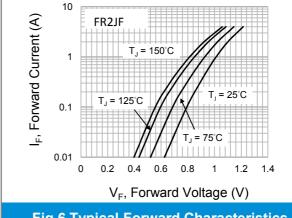


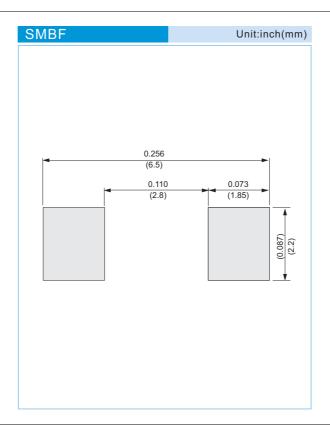
Fig.6 Typical Forward Characteristics

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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 5K per 13" plastic Reel

LEGAL STATEMENT

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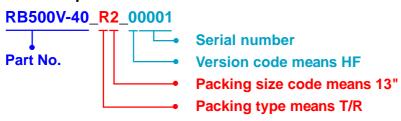
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For example:



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	Х				
TRR	S	52mm	Υ				
TRL	L	PBCU	U				
FORMING	F	PBCD	D				

Part No_packing code_Version

FR2AF_R1_00001 FR2AF_R2_00001

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