



SURFACE MOUNT SUPERFAST RECTIFIER

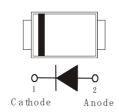
VOLTAGE 400-1000 Volt CURRENT 1 Ampere

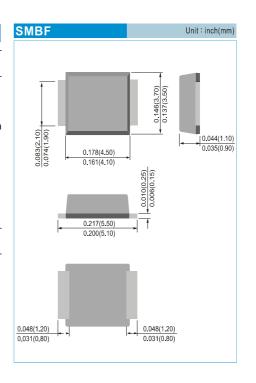
FEATURES

- For surface mounted applications in order to optimize board space
- · Low profile package
- Easy pick and place
- Complete device submersible temperature of 260°C for 10 seconds in solder bath
- 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. . (Halogen Free)

MECHANICAL DATA

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





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	S1GF	S1JF	S1KF	S1MF	UNITS
Recurrent Peak Reverse Voltage	V _{RRM}	400	600	800	1000	V
RMS Voltage	V _{RMS}	280	420	560	700	V
DC Blocking Voltage	V _R	400	600	800	1000	V
Average Forward Current	I _{F(AV)}		Α			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}		А			
Forward Voltage at 1A	V _F	1.1				V
DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I _R	1				μΑ
Typical Junction Capacitance V _R =4V,f=1MHz	C _J		pF			
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2)	$R_{_{ heta JA}}$	15 135				°C / W
Operating Junction Temperature and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				°C

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

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





RATING AND CHARACTERISTIC CURVES

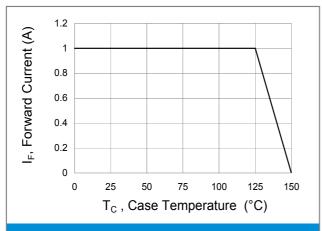


Fig.1 Forward Current Derating Curve

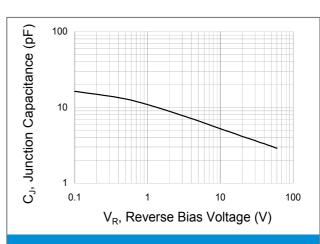


Fig.2 Typical Junction Capacitance

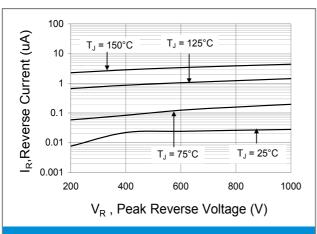


Fig.3 Typical Reverse Characteristics

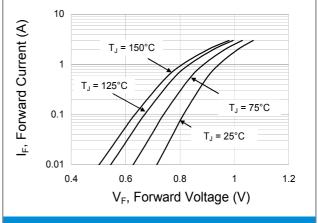
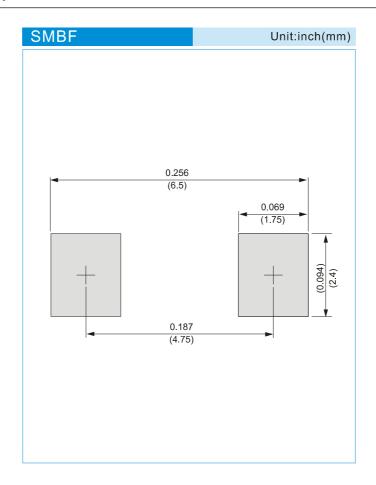


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

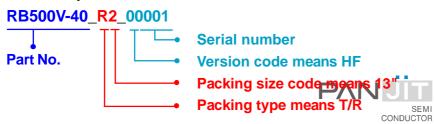
T/R - 5K per 13" plastic Reel



Part No_packing code_Version

S1GF_R1_00001 S1GF_R2_00001

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		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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