



SURFACE MOUNT SUPERFAST RECTIFIER

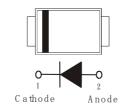
VOLTAGE 400 Volt CURRENT 1 Ampere

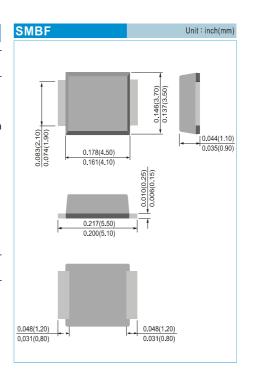
FEATURES

- 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
- Acquire quality system certificate: TS16949
- AEC-Q101 qualified
- 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	VALUE	UNITS
Recurrent Peak Reverse Voltage		V _{RRM}	400	V
RMS Voltage			280	V
DC Blocking Voltage			400	٧
Average Forward Current			1	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	30	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	CJ	9	pF
Typical Thermal Resistance ,Junction to Lead (No Junction to Ambient ($R_{_{ heta JA}}$	15 135	°C / W
Operating Junction Temperature and Storage Tem	perature 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

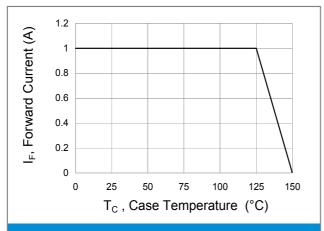


Fig.1 Forward Current Derating Curve

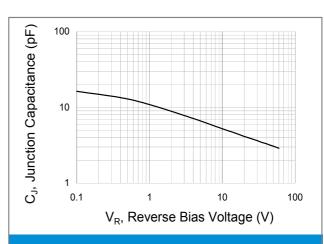


Fig.2 Typical Junction Capacitance

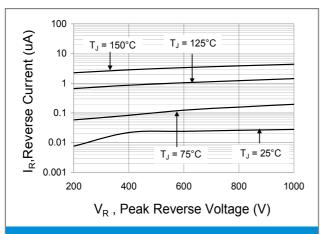


Fig.3 Typical Reverse Characteristics

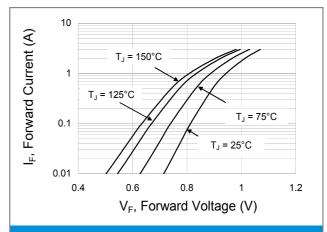
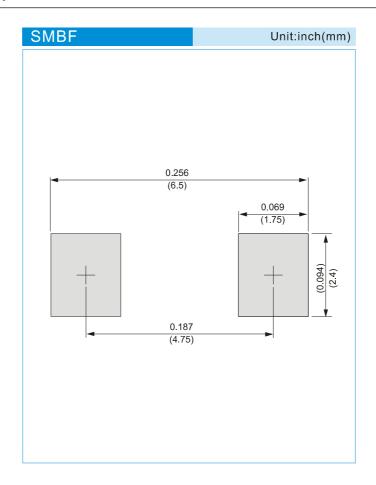


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel

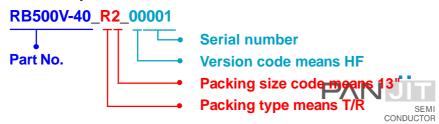




Part No_packing code_Version

S1GF-AU_R1_000A1 S1GF-AU_R2_000A1

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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