



SURFACE MOUNT RECTIFIER

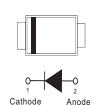
VOLTAGE 400~1000 Volts CURRENT 2 Amperes

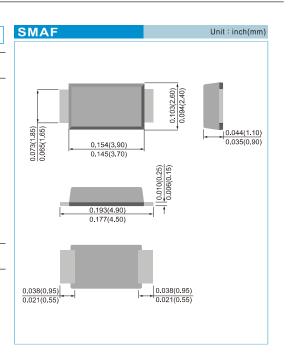
FEATURES

- · For surface mounted applications in order to optimize board space
- · Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Low Forward Drop
- High temperature soldering : 260°C /10 seconds at terminals
- · Glass Passivated Chip Junction
- Ultra Thin Profile Package for Space Constrained Utilization
- · Package suitable for Automated Handling
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SMAF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0011 ounce, 0.0328 gram





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	GS2GF	GS2JF	GS2KF	GS2MF	UNITS	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	400	600	800	1000	٧
Maximum Average Forward Current		I _{F(AV)}	2				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}		Α			
Maximum Forward Voltage at 2A		V _F		V			
Maximum DC Reverse Current at Rated DC Blocking Voltage		I _R	1				μА
Typical Junction Capacitance (V _R =4V, f=1MHz)		CJ	18				pF
Typical Thermal Restistance	(Notes 1) (Notes 2)	$R_{_{\Theta JL}}$ $R_{_{\Theta JA}}$	25 150				°C/W
Operating and Storage Temperature Range		T_J,T_STG		°C			

NOTES: 1. Mounted on an FR4 PCB, single-sided copper, with 100cm² copper pad area

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





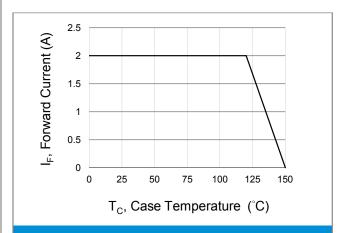


Fig.1 Forward Current Derating Curve

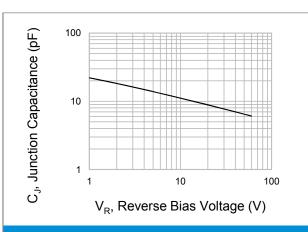


Fig.2 Typical Junction Capacitance

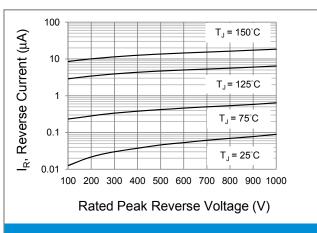


Fig.3 Typical Reverse Characteristics

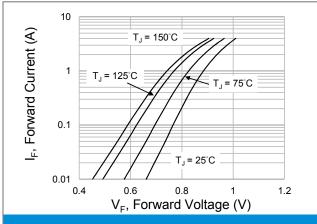
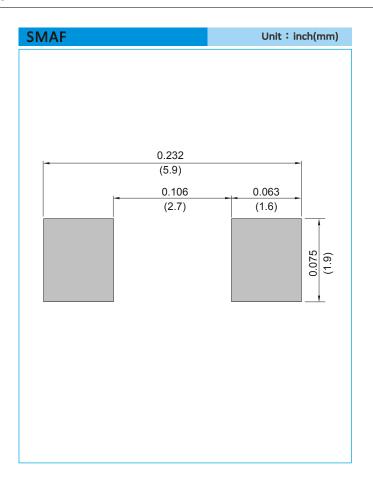


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

GS2GF_R1_00001 GS2GF_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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