



SURFACE MOUNT RECTIFIER

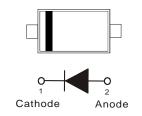
VOLTAGE 400~1000 Volts CURRENT 2 Ampere

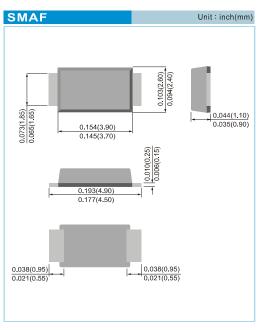
FEATURES

- 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





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

PARAMETER		SYMBOL	GS2GIF	GS2JIF	GS2KIF	GS2MIF	UNITS
Recurrent Peak Reverse Voltage			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)}	2				А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	60				А
Forward Voltage at 2A			1.1				٧
DC Reverse Current at Rated DC Blocking Voltage T_J=25°C			1				μА
Typical Junction Capacitance	$V_R=4V,1MHz$	C	15			pF	
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2)			25 150				°C / W
Operating Junction Temperature and Storage Temperature Range			-55 to +150				°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.





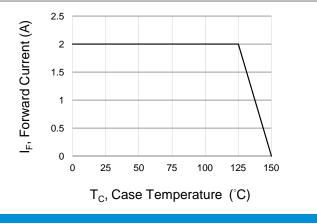


Fig.1 Forward Current Derating Curve

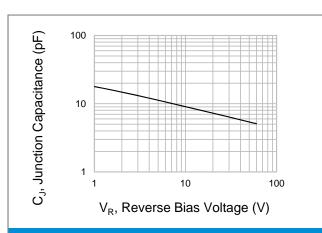


Fig.2 Typical Junction Capacitance

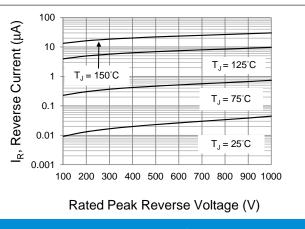


Fig.3 Typical Reverse Characteristics

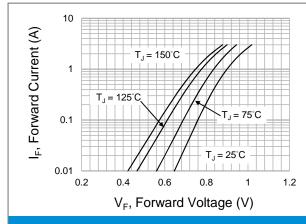
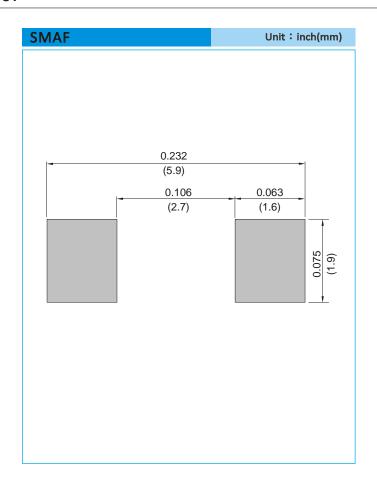


Fig.4 Typical Forward Characteristics





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

GS2GIF_R1_00001 GS2GIF_R2_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing type means T/R

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	Х				
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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