



SURFACE MOUNT RECTIFIER

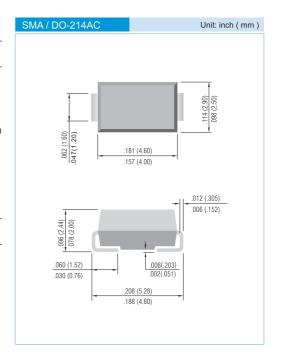
VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes

FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- 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
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0023 ounce, 0.0679 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	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Currenth at T _L =100 °C	I _{F(AV)}	1.0						Α	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	30					Α		
Maximum Forward Voltage at 1.0A	V _F	1.1						٧	
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =125°C	I _R	1.0 50						μА	
Typical Junction capacitance (Note 1)	C	12							pF
Typical Junction Resistance(Note 2)	R _{eJL}	30						°C / W	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						°C	

NOTES:1. Measured at 1 MHz and applied $V_r = 4.0$ volts.

2. $8.0\ mm^2$ ($.013mm\ thick$) land areas.





RATING AND CHARACTERISTIC CURVES

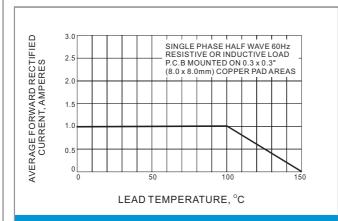


Fig.1 FORWARD CURRENT DERATING CURVE

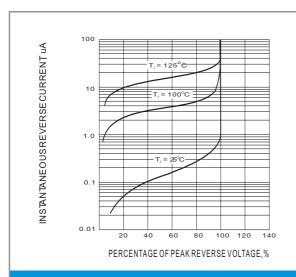
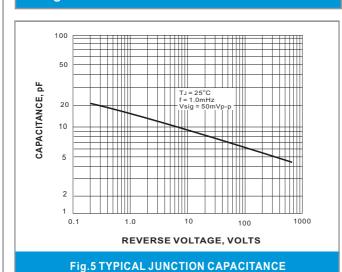


Fig.3-TYPICALREVERSECHARACTERISTIC



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Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

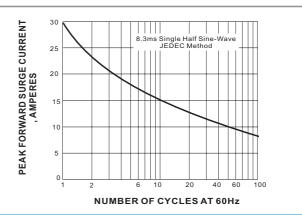


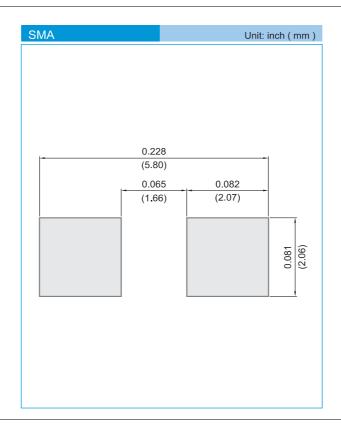
Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

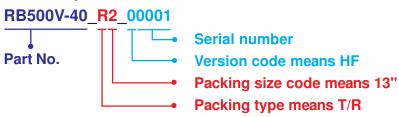
T/R - 7.5K per 13" plastic Reel

T/R - 1.8Kper 7" plastic Reel





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

Part No_packing code_Version

GS1A_R1_00001

GS1A_R1_10001

GS1A_R2_00001

GS1A_R2_10001





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