



SURFACE MOUNT RECTIFIER

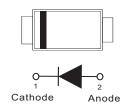
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

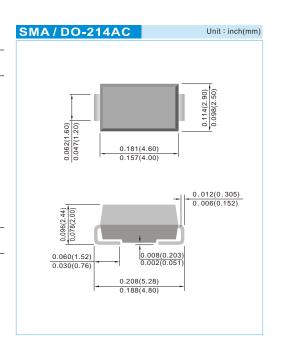
FEATURES

- 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
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: JEDEC DO-214AC 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: 0.002 ounce, 0.067 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	V _{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Currenth at T _L =100 °C	I _{F(AV)}	1					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	35					А		
Maximum Forward Voltage at 1A	V _F	1.1					V		
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =125°C		1 50					μА		
Typical Junction Capacitance (Note 1)		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 $V_r = 4$ volts.

2. 8 mm² (0.013mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

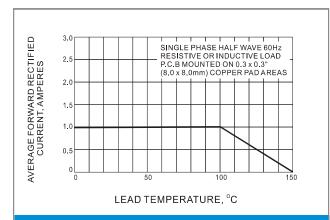


Fig.1 FORWARD CURRENT DERATING CURVE

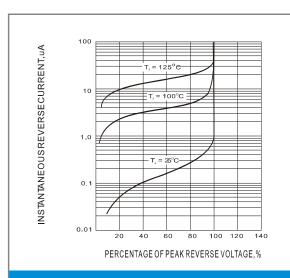
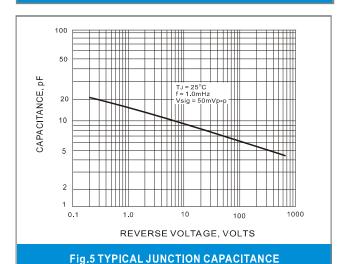


Fig.3-TYPICALREVERSECHARACTERISTIC



INSTANTANEOUS FORWARD CURRENT, AMPERES Tj=25°C 40 Pulse Width=300µS 2%Duty Cycle 20 10 4.0 2.0 1.0 0.4 0.2 0.6 0.4 0.8 1.0 INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

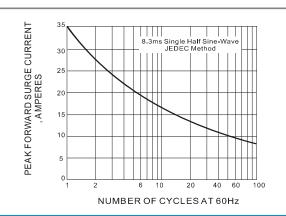
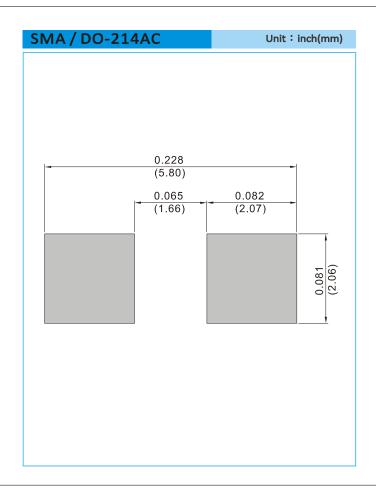


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel

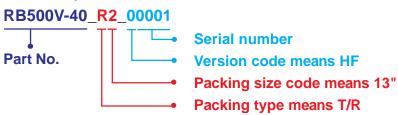




Part No_packing code_Version

GS1A_R1_00001 GS1A_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	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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