



SURFACE MOUNT RECTIFIER

VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

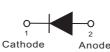
FEATURES

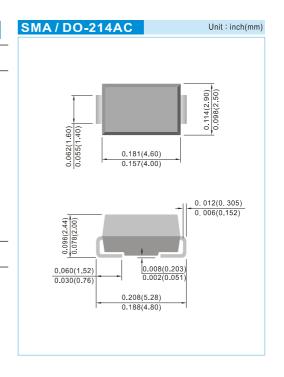
- For surface mounted applications in order to optimize board space
- · Easy pick and place
- Plastic package has underwriters laboratory flammability Classification 94V-O
- Low forward drop
- High temperature soldering : 260°C /10 seconds at terminals
- Glass passivated chip junction
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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 ounces, 0.067 grams







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-AU	GS1B-AU	GS1D-AU	GS1G-AU	GS1J-AU	GS1K-AU	GS1M-AU	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	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 Current		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 Voltage	T _J =25°C T _J =125°C	I _R	1 50				μА			
Typical Junction Capacitance (Note 1)		C ¹	12						pF	
Typical Junction Resistance	(Note 2) (Note 3)	$R_{_{\theta JA}}$	37 150				°C /			
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. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
- 3. Mounted on a FR4 PCB, single-sided copper, mini pad.





RATING AND CHARACTERISTIC CURVES

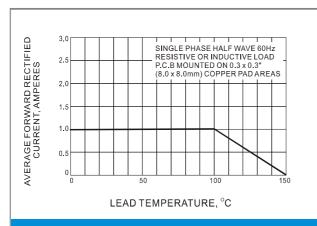


Fig.1 FORWARD CURRENT DERATING CURVE

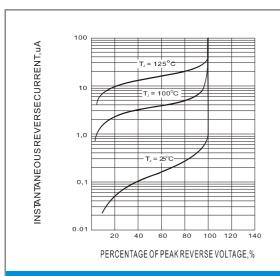


Fig.3-TYPICALREVERSECHARACTERISTIC

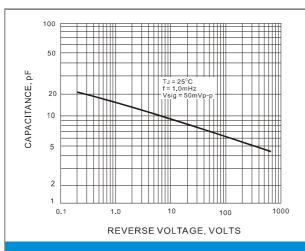


Fig. 5 TYPICAL JUNCTION CAPACITANCE

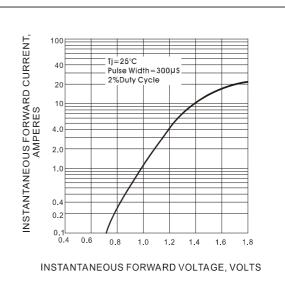


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

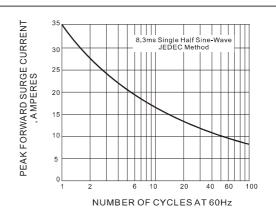
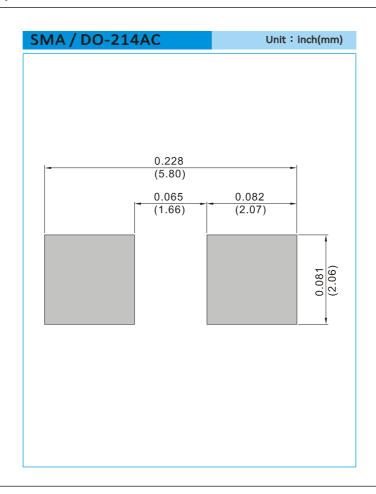


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel

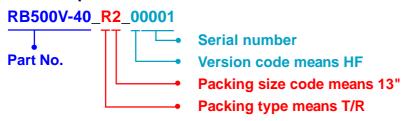




Part No_packing code_Version

GS1A-AU_R1_000A1 GS1A-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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