



SURFACE MOUNT RECTIFIER

VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

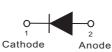
FEATURES

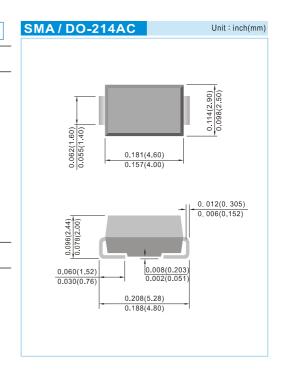
- For surface mounted applications in order to optimize board space
- · Easy pick and place
- Plastic package has underwriters laboratory flammability Classification 94V-O
- · Low forward drop
- High temperature soldering : 260°C /10 seconds at terminals
- · Glass passivated chip junction
- AEC-Q101 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)
- · Approx. Weight: 0.0679 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	
	_=25°C _=125°C	I _R				1 50				μА
Typical Junction Capacitance (Note 1)		C _J				12				pF
Typical Junction Resistance (Note 2)		$R_{_{ heta JA}}$	16 50						°C /	
Operating and Storage Temperature Range		T_J,T_STG	-55 to +150						°C	

NOTES:1. Measured at 1 MHz and applied $V_{\rm R}$ = 4 volts.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm ² copper pad area





RATING AND CHARACTERISTIC CURVES

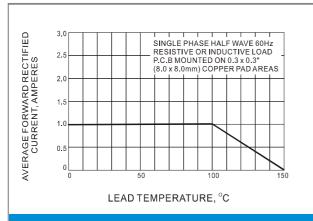


Fig.1 FORWARD CURRENT DERATING CURVE

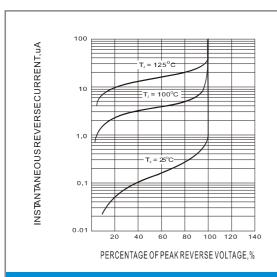


Fig.3-TYPICALREVERSECHARACTERISTIC

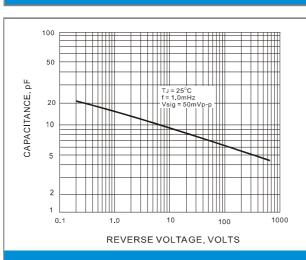


Fig. 5 TYPICAL JUNCTION CAPACITANCE

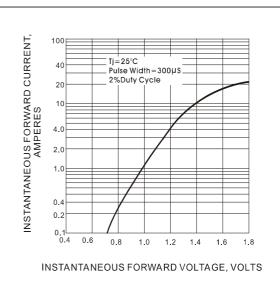


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

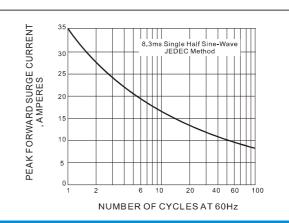
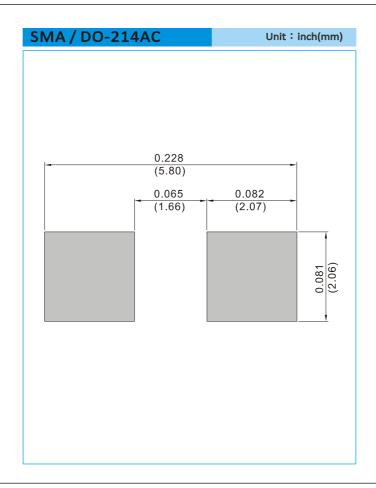


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel

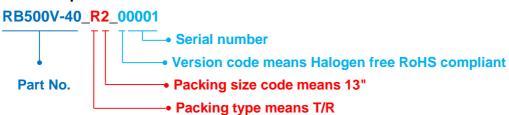




Part No._packing code_Version

GS1A-AU_R1_000A1 GS1A-AU_R2_000A1

For example:



	Version Code	Serial number XXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HSF Level	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	Halogen free RoHS compliant	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS compliant	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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