

## **GS2AA THRU GS2MA**

#### SURFACE MOUNT GLASS PASSIVATED RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

#### FEATURES

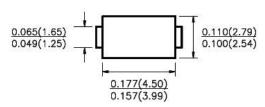
- ◆Plastic package has underwrites laboratory flammability Classification 94V-0
- ◆For surface mounted applications
- ◆Low profile package
- ◆Built-in strain relief, ideal for automated placement
- ◆Glass passivated chip junction
- ♦ High temperature soldering guaranteed

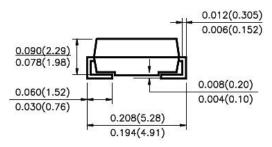
250°C/10 second at terminals

#### **Mechanical Data**

- ◆Case: JEDED DO-214AC molded plastic over glass passivated chip
- ◆ Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- ◆Polarity: Color band denotes cathode end

## DO-214AC (SMA)





**Dimensions in inches and (millimeters)** 

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOLS	GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T∟= 100 °C	I <sub>F(AV)</sub>	2.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) T∟= 100℃	İfsm	50						Amps	
Typical Thermal Resistance (Note 1)	RөJA	53 16							°C/W
	Rejl								
Operating junction and Storage Temperature Range	T <sub>J</sub> ,TsTG	-55 to +150						$^{\circ}$ C	

### **ELECTRICAL CHARACTERISTICS**

		SYMBOLS	GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		V <sub>F</sub>	1.10							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T <sub>A</sub> = 25°C	- I <sub>R</sub>	5.0							- uA
	T <sub>A</sub> =125℃		200							
Typical Reverse Recovery Time at I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>RR</sub> =0.25A		t <sub>rr</sub>	2.5							us
Typical junction capacitance at 4.0V, 1MHz		Сл	30							pF

Note: 1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with  $0.3 \times 0.3$ " (8.0  $\times$  8.0mm) copper pad areas

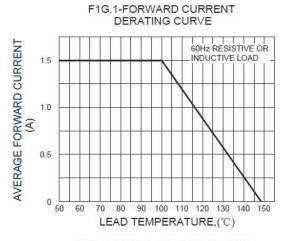


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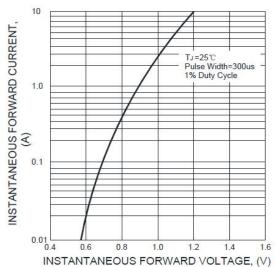
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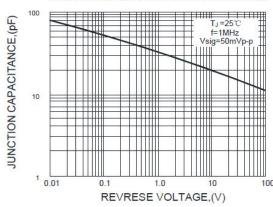
#### RATING AND CHARACTERISTIC CURVES GS2AA THRU GS2MA





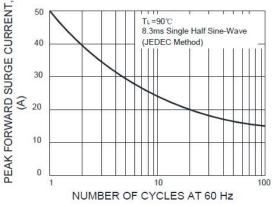


#### F1G.5-TYPICAL JUNCTION CAPACITANCE

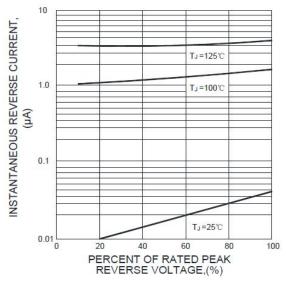




F1G.2-MAXIMUM NON-REPETITIVE PEAK



#### F1G.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.