

GS2AA THRU GS2MA

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

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

FEATURES

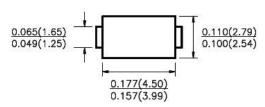
- ◆Plastic package has underwrites laboratory flammability Classification 94V-0
- ◆For surface mounted applications
- ◆Low profile package
- ◆Built-in strain relief, ideal for automated placement
- ◆Glass passivated chip junction
- ♦ High temperature soldering guaranteed

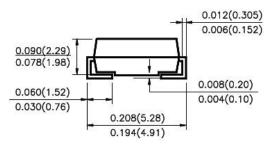
250°C/10 second at terminals

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 _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T∟= 100 °C	I _{F(AV)}	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 _J ,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 _F	1.10							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C	- I _R	5.0							- uA
	T _A =125℃		200							
Typical Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	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 0.3×0.3 " (8.0 \times 8.0mm) copper pad areas

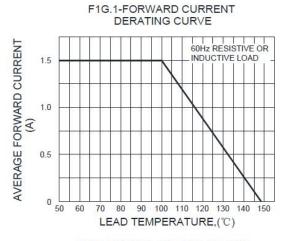


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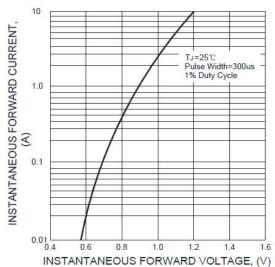
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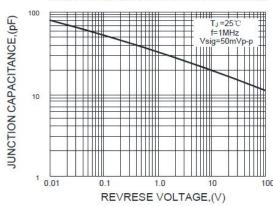
RATING AND CHARACTERISTIC CURVES GS2AA THRU GS2MA





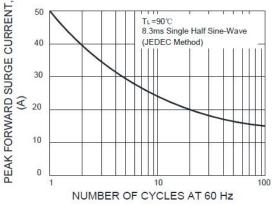


F1G.5-TYPICAL JUNCTION CAPACITANCE

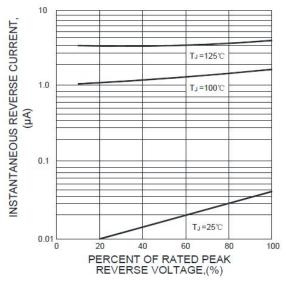




F1G.2-MAXIMUM NON-REPETITIVE PEAK



F1G.4-TYPICAL REVERSE CHARACTERISTICS



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