

GS2A THRU GS2M

SURFACE MOUNT GLASS PASSIVATED RECTIFIER
VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Ampere

FEATURES

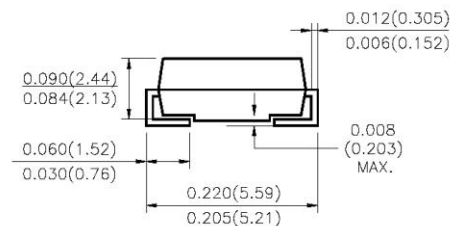
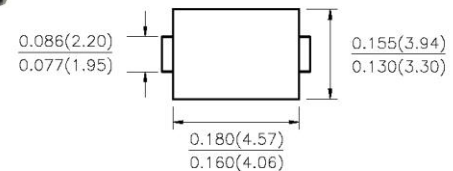
- ◆ Plastic package has underwrites laboratory flammability
- ◆ Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low profile package
- ◆ Built-in strain relief, ideal for automated placement
- ◆ Glass Passivated chip junction
- ◆ High temperature soldering guaranteed 250°C/10 second at terminals

Mechanical Data

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



DO-214AA (SMB)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GS2A	GS2B	GS2D	GS2G	GS2J	GS2K	GS2M	UNITS	
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 $T_L = 100^\circ\text{C}$	$I_{F(AV)}$	2.0							Amps	
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) $T_L = 100^\circ\text{C}$	I_{FSM}	50							Amps	
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	53							°C/W	
	$R_{\theta JL}$	16								
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°C	
Maximum Instantaneous Forward Voltage at 1.5A	V_F	1.15							Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	I_R	5.0							μA
	$T_A = 125^\circ\text{C}$		125							
Typical Reverse Recovery Time at $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$,	T_{rr}	2.0							μs	
Typical junction capacitance at 4.0V, 1MHz	C_J	30							pF	

Note: 1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B.

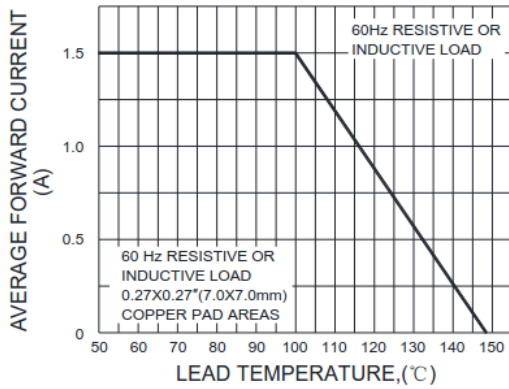
with 0.3×0.3"(8.0 × 8.0mm) copper pad areas.

GS2A THRU GS2M

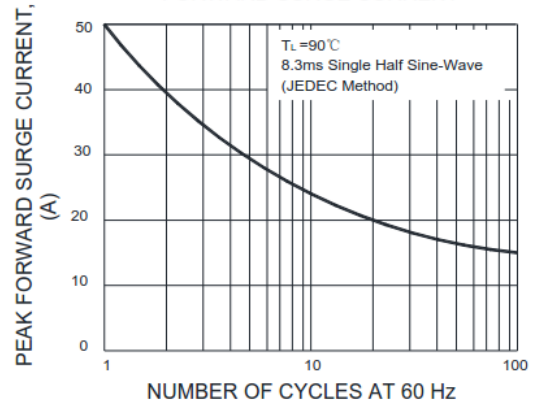
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RATING AND CHARACTERISTIC CURVES GS2A THRU GS2M

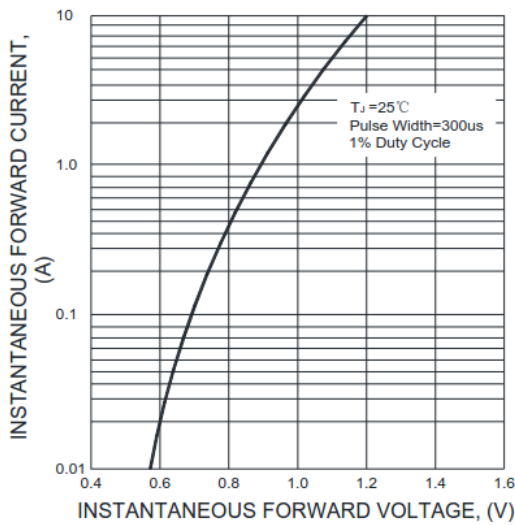
F1G.1-FORWARD CURRENT DERATING CURVE



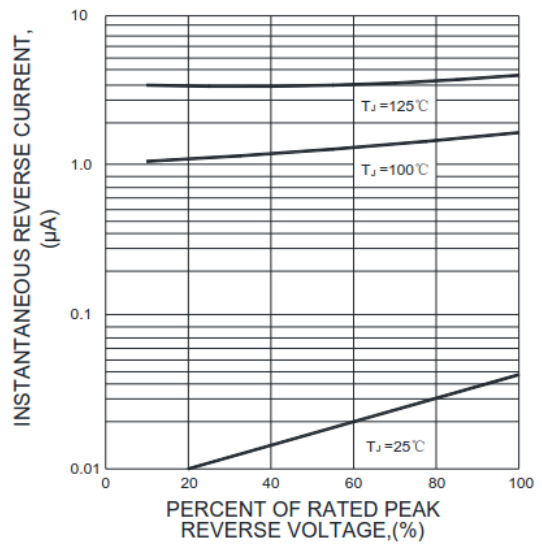
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



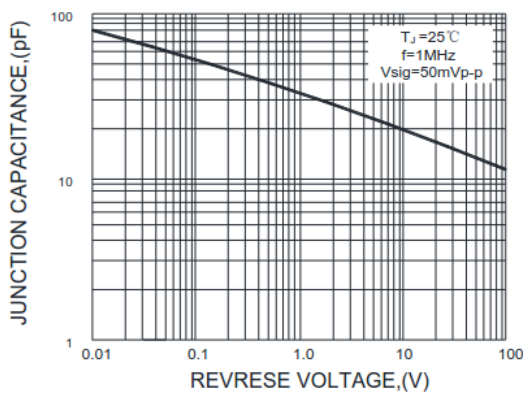
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



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