# SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

## FEATURES

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

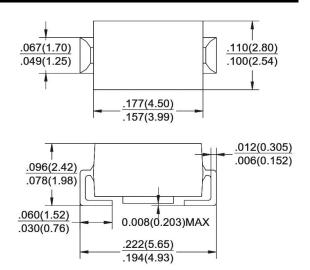
MECHANICAL DATA

Case: JEDED SMA-J (DO-214AC) molded plastic Terminals: Plated axial lead solderable per MIL-STD-750, method 2026 Polarity: Color band denotes cathode end Mounting position: Any

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}$  ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load derate current by 20%

# SMA - J (DO-214AC)



GS1A THRU GS1M

#### Dimensions in inches and (millimeters)

PARAMETER		SYMBOL	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	UNIT
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (see Fig.1)		I <sub>F</sub> (AV)	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave			30							Amps
superimposed on rated load (JEDEC method) T_L=90 $^\circ\!\!\!\mathrm{C}$		FSM								
Maximum Instantaneous Forward Voltage at 1.0A		VF	1.1							Volts
Maximum Reverse Current	TA = 25℃		5.0							
at Rated DC Blocking Voltage	T <sub>A</sub> = 125℃	R	50							uA
Typical Junction Capacitance (NOTE 1)		Reja	50 90							°CM
		Rej∟								
Typical Thermal Resistance (NOTE 2)		t <sub>rr</sub>	1.8							μs
Operating and Storage Temperature Range		TJ,Tstg	-55 to +150							°C

1- Thermal resistance from Junction to ambient and from junction to lead mounted on  $0.2 \times 0.2^{"}$  (5.0 × 5.0mm) copper pad areas.

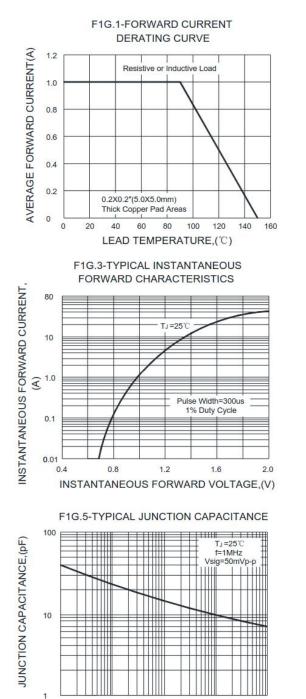
2- Reverse recovery test condition: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, Irr=0.25A.

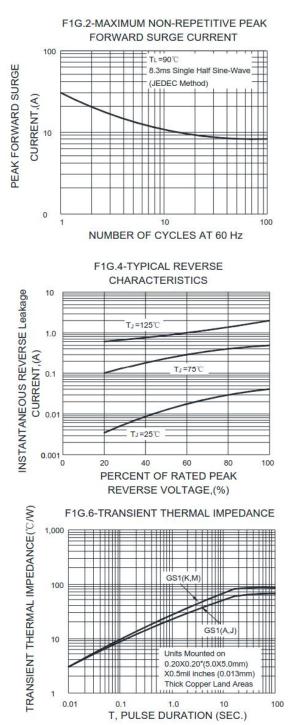
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# **RATINGS AND CHARACTERISTIC CURVES**





GS1A THRU GS1N

Note: Specifications are subject to change without notice.

1.0

**REVRESE VOLTAGE,(V)** 

10

100

0.1

0.01

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