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## **GS1A THRU GS1M**

## SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

#### **FEATURES**

- ◆The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆For surface mounted applications
- ◆Low reverse leakage
- ◆Built-in strain relief, ideal for automated placement
- High forward surge current capability
- ◆High temperature soldering guaranteed:

250℃/10 seconds at terminals

#### **MECHANICAL DATA**

Case: JEDEC DO-214AC molded plastic body

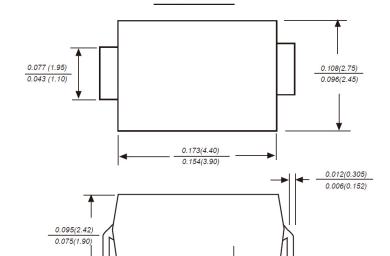
Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.075 grams



**DO-214AC** 

Dimensions in inches and (millimeters)

0.203(5.15)

0.191(4.85)

0.009(0.230)MAX

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

0.060(1.52)

0.030(0.76)

Rating 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%

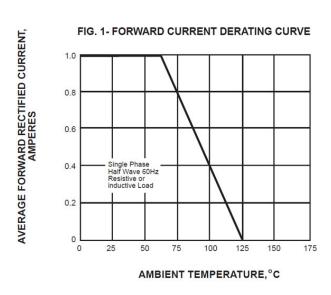
	SYMBOLS	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=55 °C	I(AV)	1.0							Amp
Peak forward surge current									
8.3ms single half sine-wave superimposed on	I <sub>FSM</sub> 30								Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.1							Volts
Maximum DC reverse current Ta=25°C	lo.	5.0							μА
at rated DC blocking voltage Ta=100 $^{\circ}\mathrm{C}$	lR	50.0							
Typical junction capacitance (NOTE 1)	Cı	15.0							pF
Typical thermal resistance (NOTE 2)	RqJA	75.0							°C/W
Operating junction and storage temperature range	TJ ,TsTG	-65 to +175							$^{\circ}$

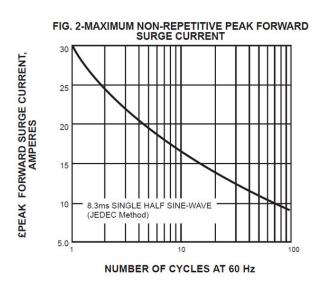
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

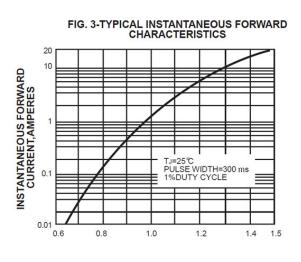
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

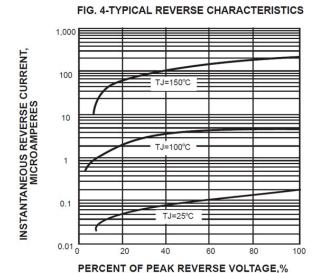
# **GS1A THRU GS1M**

### RATINGS AND CHARACTERISTIC CURVES GS1A THRU GS1M

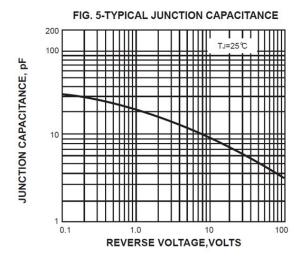


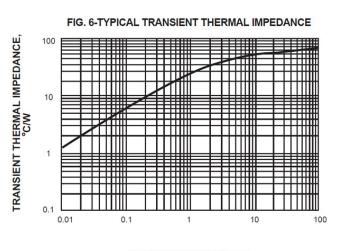






INSTANTANEOUS FORWARD VOLEAGE,





t,PULSE DURATION,sec.