

### **Features**

- Halogen Free. "Green" Device (Note 1)
- · Glass Passivated Junction
- Extremely Low Thermal Resistance
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

# 1 Amp Glass Passivated Rectifier 2000 Volts

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 25°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS1Z-L	GS1Z	2000V	1400V	2000V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

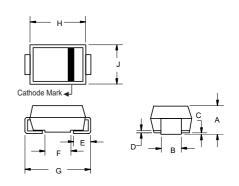
Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>L</sub> = 110°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.15V	I <sub>FM</sub> = 1.0A;T <sub>J</sub> = 25°C *
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	1μΑ 50μΑ	T <sub>J</sub> = 25°C T <sub>J</sub> = 100°C
Typical Reverse Recovery Time	t <sub>rr</sub>	2.5µs	I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0A,I <sub>RR</sub> =0.25A

<sup>\*</sup>Pulse Test: Pulse Width 300  $\mu$ sec, Duty Cycle 2%

#### Note:

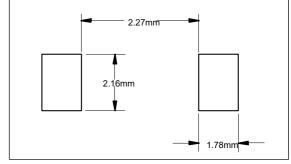
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

# **SMA (DO-214AC)**



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.075	0.096	1.90	2.44			
В	0.050	0.064	1.27	1.63			
С	0.002	0.008	0.051	0.203			
D		0.020		0.51			
E	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.189	0.220	4.80	5.59			
Н	0.157	0.187	4.00	4.75			
J	0.090	0.115	2.25	2.92			

#### SUGGESTED SOLDER PAD LAYOUT

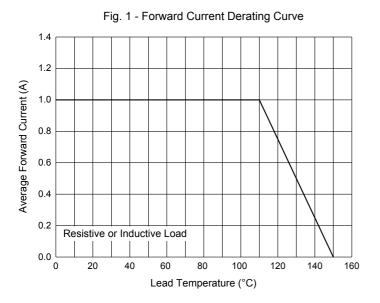


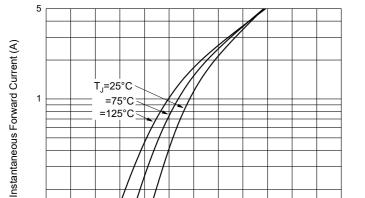


0.1 <del>-</del> 0.4

0.6

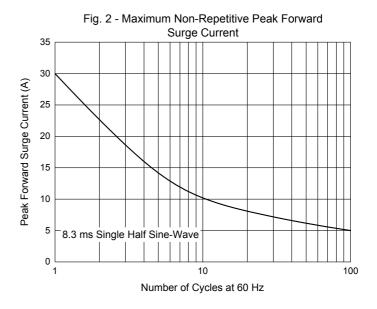
# **Curve Characteristics**

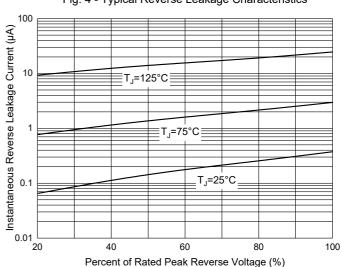




Instantaneous Forward Voltage (V)

Fig. 3 - Typical Instantaneous Forward Characteristics







# **Ordering Information**

Device	Packing	
GS1Z-LTP	Tape&Reel: 7.5Kpcs/Reel	

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