

Features

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

1 Amp Glass Passivated Rectifier 1600 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage	
GS1Y-L	GS1Y	1600V	1120V	1600V	

Electrical Characteristics @ 25°C Unless Otherwise Specified

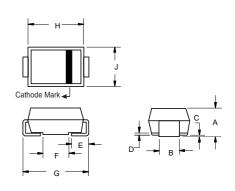
Average Forward Current	I _{F(AV)}	1.0A	T _L = 125°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.10V(typ.) 1.25V(max)	I _{FM} = 1.0A;T _J = 25°C *
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _J = 25°C T _J = 125°C
Typical Reverse Recovery Time	t _{rr}	2.5µs	I _F =0.5A,I _R =1.0A,I _{RR} =0.25A

^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2%

Note:

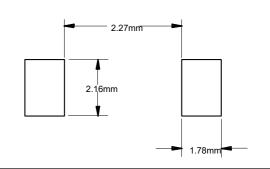
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

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		
Е	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





Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

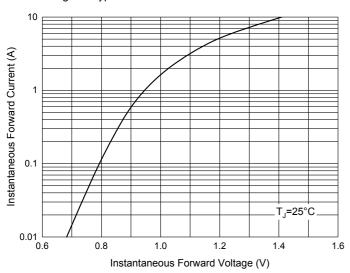


Fig. 3 - Forward Current Derating Curve

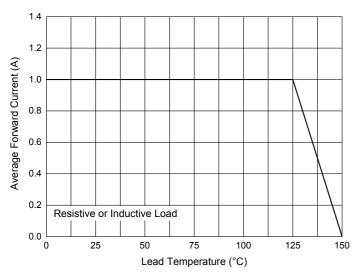


Fig. 2 - Typical Reverse Leakage Characteristics

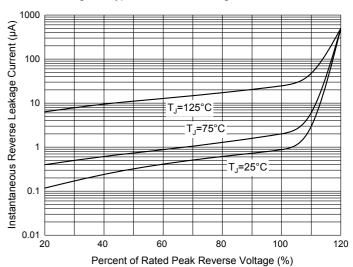
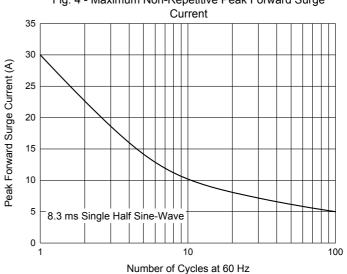


Fig. 4 - Maximum Non-Repetitive Peak Forward Surge





Ordering Information

Device	Packing
GS1Y-LTP	Tape&Reel: 7.5Kpcs/Reel

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