



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 GS1Z-L

Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Extremely Low Thermal Resistance
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- ∠ Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

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

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

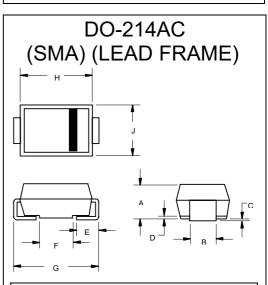
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward current	I _{F(AV)}	1.0A	T _L = 110°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine,
Maximum Instantaneous Forward Voltage	V _F	1.15V	I _{FM} = 1.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1μΑ 50μΑ	T _J = 25°C T _J = 100°C
Typical Reverse Recovery Time	T _{rr}	2500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

Note 1: High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

1.0 Amp Glass Passivated Rectifier 2000 Volts



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.079	.096	2.00	2.44		
В	.050	.064	1.27	1.63		
С		.008		.20		
D	_	.02		.51		
E	.030	.060	.76	1.52		
Ŧ	.065	.091	1.65	2.32		
G	.189	.220	4.80	5.59		
Н	.157	.181	4.00	4.60		
J	.090	.115	2.25	2.92		

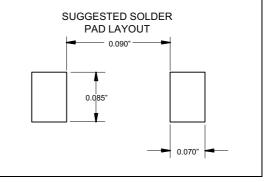
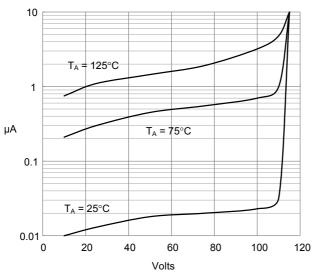




Figure 1
Typical Reverse Characteristics



Instantaneous Reverse Current - Micro Amps*versus* Percent Of Rated Peak Reverse Voltage - Volts

1.2
1.0
0.8
0.6
0.4

Single Phase, Half Wave

25

60Hz Resistive or Inductive

50

Figure 2

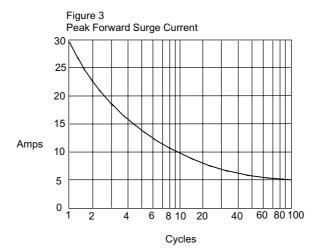
 $^{\circ}\text{C}$ Average Forward Rectified Current - Amperes versus Lead Temperature - $^{\circ}\text{C}$

75

100

125

150



Α

0.2

Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. GS1Z-LTP-HF

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