

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

Thermal Resistance: 15°C/W Junction to Case(Note3)
Thermal Resistance: 20°C/W Junction to Lead(Note3)
Thermal Resistance: 65°C/W Junction to Ambient (Note3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GS1ZFL	GS1Z	2000V	1400V	2000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

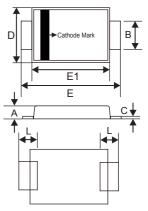
Average Forward Current	I _{F(AV)}	1.0A	T _L = 110°C	
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, Half Sine	
Maximum Instantaneous Forward Voltage	V _F	1.15V	I _{FM} = 1.0A;T _J = 25°C *	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1μΑ 50μΑ	T _J = 25°C T _J = 100°C	
Typical Reverse Recovery Time	t _{rr}	2.5µs	I _F =0.5A,I _R =1.0A,I _{RR} =0.25A	

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

Note:

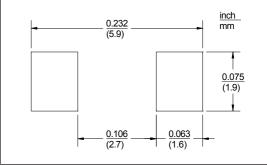
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.
- 3. Mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) Copper Pad Areas.

DO-221AC(SMA-FL)



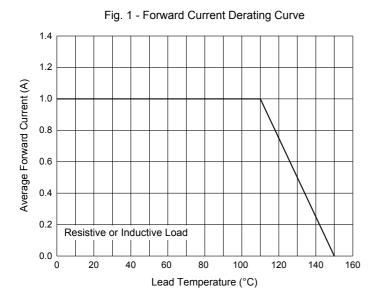
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.035	0.049	0.90	1.25		
В	0.049	0.065	1.25	1.65		
С	0.004	0.016	0.10	0.40		
D	0.089	0.116	2.25	2.95		
Е	0.173	0.220	4.40	5.60		
E1	0.126	0.181	3.20	4.60		
L	0.020	0.059	0.50	1.50		

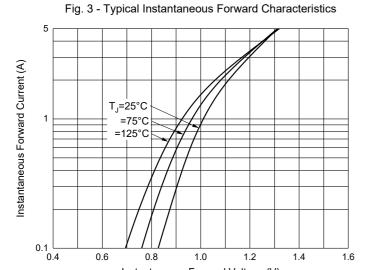
Suggested Solder Pad Layout





Curve Characteristics

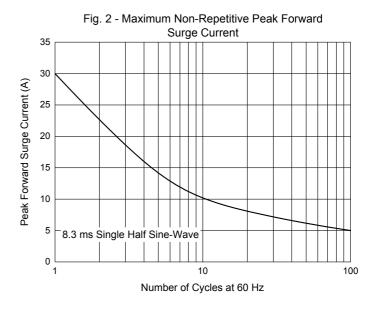


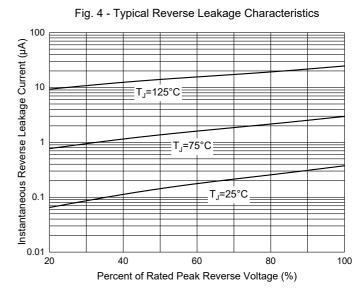


1.0

Instantaneous Forward Voltage (V)

0.6







Ordering Information

Device	Packing	
GS1ZFL-TP	Tape&Reel: 10Kpcs/Reel	

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