

Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- For Surface Mount Applications
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

1 Amp General Purpose Rectifier 2000 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}			
Working Peak Reverse Voltage	V _{RWM}	2000	V	
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{RMS}	1400	V	
Average Rectified Forward Current @ T _L =110°C	I _{F(AV)}	F	Α	
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	H0	А	
Current Squared Time @ 1ms≤t≤8.3ms	I ² t	HËH	A ² s	

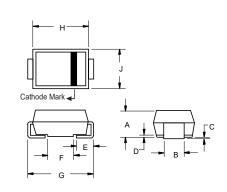
Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	MCC 2	
2	Anode	GS1ZS 2	1 0

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

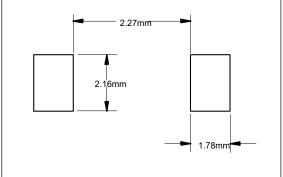
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

SMA (DO-214AC)



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.096	2.00	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		
Ι	0.157	0.181	4.00	4.60		
J	0.090	0.115	2.25	2.92		

SUGGESTED SOLDER PAD LAYOUT





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C			1.15	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			5 100	uA
Reverse Recovery Time	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C		2.5		uS
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		5		pF

^{1.}Mounted on P.C.B. with 5mm*5mm copper pad areas.



Curve Characteristics

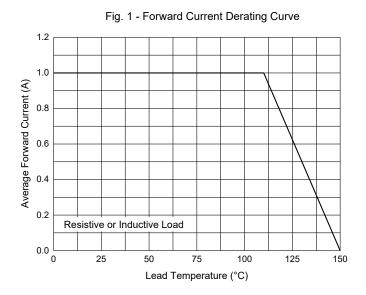


Fig. 3 - Typical Forward Characteristics 5 T₁=25°C =75°C Forward Current (A) =125°C

0.1 0.4 0.6 8.0 1.0 1.2 1.4 1.6 Forward Voltage (V)

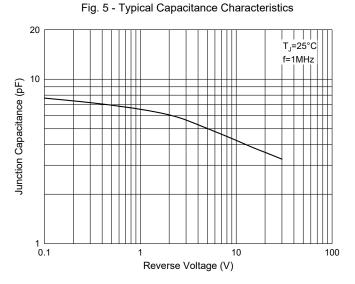


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

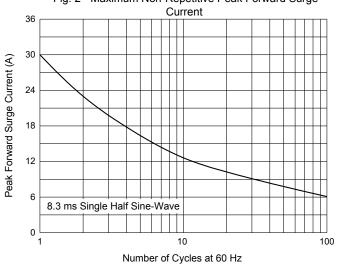
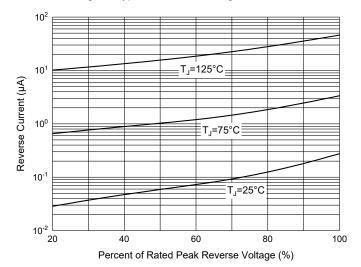


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
GS1ZS-LTP	Tape&Reel:7.5Kpcs/Reel		

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