

Features

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

1.0 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: 30 °C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
S1Z-L	S1Z	2000V	1400V	2000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _L =110⁰C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.2V	I _{FM} =1.0A; T _J =25⁰C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J =25ºC; T _J =100ºC

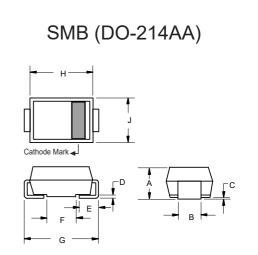
*Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

Note:

1. Halogen free "Green"products are defined as those which contain <900ppm bromine,

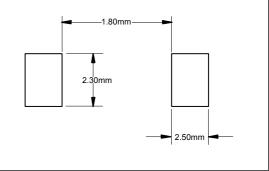
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.079	0.103	2.00	2.62	
В	0.075	0.087	1.91	2.21	
С	0.002	0.008	0.05	0.20	
D	0.006	0.012	0.15	0.31	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.200	0.220	5.08	5.59	
Н	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

Suggested Solder Pad Layout





Curve Characteristics

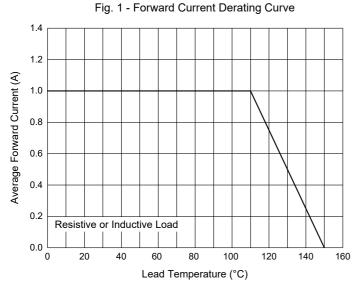
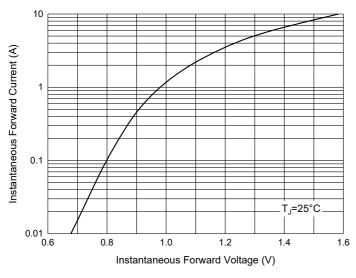
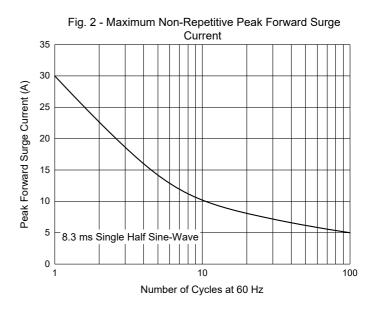
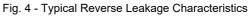
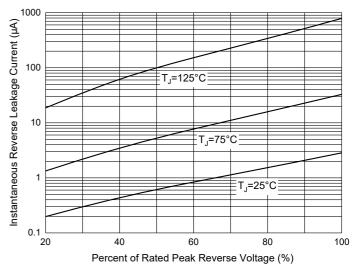


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

Device	Packing
S1Z-LTP	Tape&Reel: 3Kpcs/Reel

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