

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- High Forward Surge Capability
- 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)

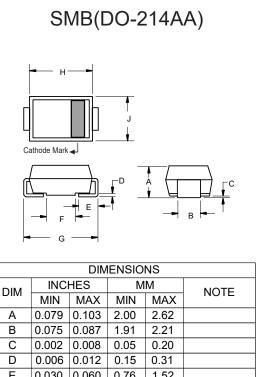
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	2000	
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	V_{RMS}	1400	V
Average Rectified Forward Current @ T_L =110°C	I _{F(AV)}	1	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave		35	Α
Current Squared Time @1ms≤t≤8.3ms	l ² t	5.08	A ² s

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	и мсс п.	
2	Anode		1 o o 2

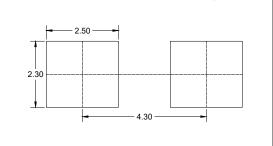
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.



0.006	0.012	0.15	0.31	
0.030	0.060	0.76	1.52	
0.065	0.091	1.65	2.32	
0.200	0.220	5.08	5.59	
0.160	0.191	4.06	4.85	
0.130	0.155	3.30	3.94	
	0.030 0.065 0.200 0.160	0.006 0.012 0.030 0.060 0.065 0.091 0.200 0.220 0.160 0.191 0.130 0.155	0.0650.0911.650.2000.2205.080.1600.1914.06	0.0300.0600.761.520.0650.0911.652.320.2000.2205.085.590.1600.1914.064.85

Suggested Solder Pad Layout



Unit:mm



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	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		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		70		°C/W

Note:

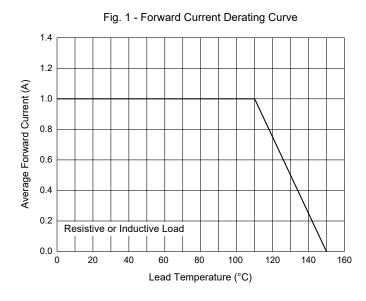
1.Mounted on P.C.B. with 8 mm x 8 mm copper pad areas.

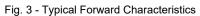
Electrical Characteristics @ 25°C Unless Otherwise Specified

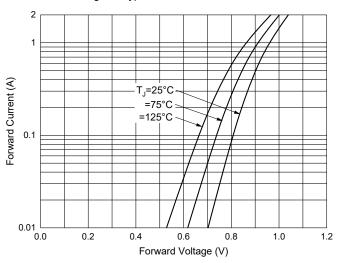
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C			1.20	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =100°C			5 50	μΑ
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		7		pF
Typical Reverse Recovery Time	t _{rr}	I _F =0.5A,I _R =1.0A,I _{RR} =0.25A;T _J =25°C		2.5		μS



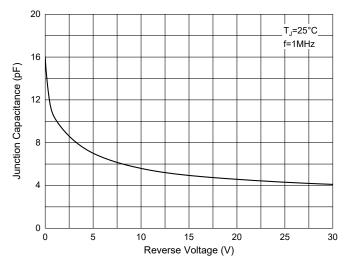
Curve Characteristics











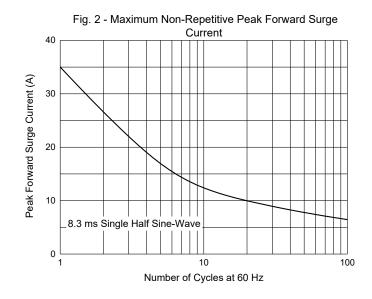
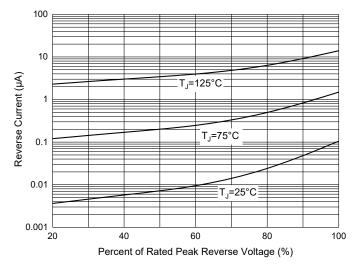


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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