

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix Designates Compliant. See Ordering Information)
- · High Current Capability
- Low Forward Voltage Drop
- For Surface Mount Applications
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Lead
- Typical Thermal Resistance: 75°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
S2AHE3-L	S2A	50V	35V	50V
S2BHE3-L	S2B	100V	70V	100V
S2DHE3-L	S2D	200V	140V	200V
S2GHE3-L	S2G	400V	280V	400V
S2JHE3-L	S2J	600V	420V	600V
S2KHE3-L	S2K	800V	560V	800V
S2MHE3-L	S2M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

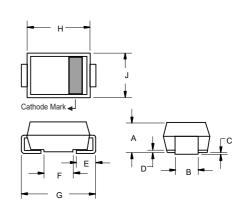
Average Forward Current	I _{F(AV)}	2.0A	T _L =100°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.15V	I _{FM} =2.0A; T _J =25°C (Note 3)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 125μΑ	T _J =25°C; T _J =125°C
Typical Junction Capacitance	CJ	20pF	Measured at 1.0MHz V _R =4.0V

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.
- 3. Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

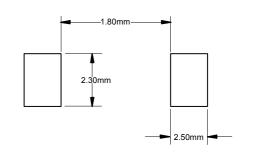
2.0 Amp Glass Passivated Silicon Rectifier 50 to 1000 Volts

SMB (DO-214AA)



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	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		
Е	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

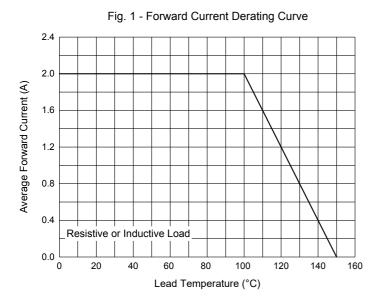


Fig. 3 - Typical Instantaneous Forward Characteristics

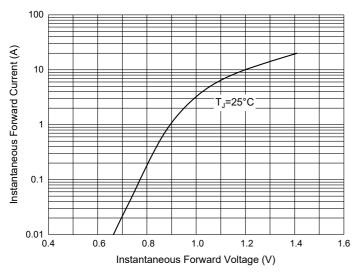


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

40

40

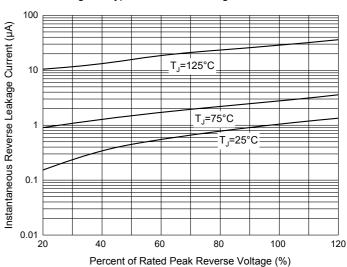
40

8.3 ms Single Half Sine-Wave

0

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
S2AHE3-LTP~S2MHE3-LTP	Tape&Reel: 3Kpcs/Reel	

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