

Features

- AEC-Q101 Qualified
- 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)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Dovementor	Symbol	Value						1114	
Parameter		S2A HE3-L	S2B HE3-L	S2D HE3-L	S2G HE3-L	S2J HE3-L	S2K HE3-L	S2M HE3-L	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Average Rectified Forward Current @ T _L =105°C	I _{F(AV)}				2				Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave					50				٨
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	100						Α	
Current Squared Time @1ms≤t≤8.3ms	l ² t				10.3	75			A ² s

Marking code

Part Number	Marking Code
S2AHE3-L	S2A
S2BHE3-L	S2B
S2DHE3-L	S2D
S2GHE3-L	S2G
S2JHE3-L	S2J
S2KHE3-L	S2K
S2MHE3-L	S2M

Internal Structure

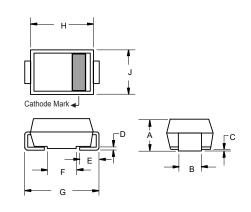
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	MCC XXXX 2	
2	Anode	XXXX = Marking Code YYWW = Date Code	1 0

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.

2 Amp General Purpose Rectifier 50 to 1000 Volts

SMB(DO-214AA)



DIMENSIONS							
DIM	INC	HES	M	М	NOTE		
DIIVI	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			
Η	0.160	0.191	4.06	4.85			
J	0.130	0.155	3.30	3.94			

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		20		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		75		°C/W

Note:

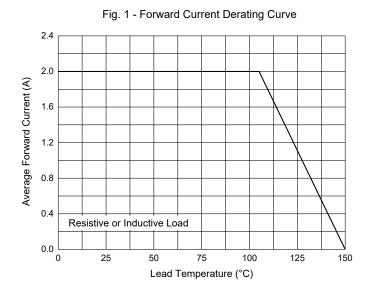
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =2A;T _J =25°C			1.1	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	μА
Junction Capacitance	Сл	V _R =4V;f=1MHz;T _J =25°C		18		pF

^{1.}Mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas.



Curve Characteristics



Current

Current

Current

Solution Sol

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

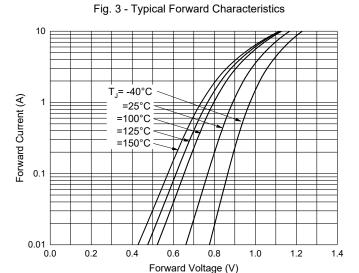


Fig. 4 - Typical Reverse Leakage Characteristics

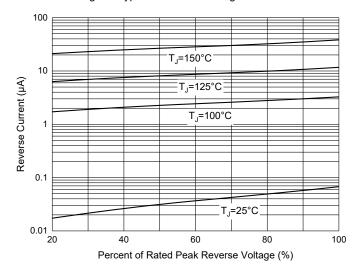
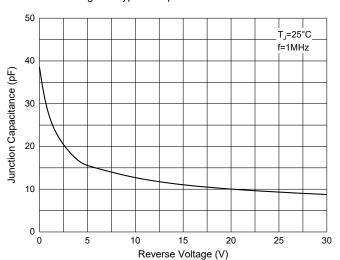


Fig. 5 - Typical Capacitance Characteristics





Ordering Information

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

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