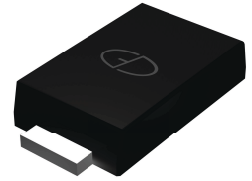


L2A1 thru L2A7

Surface Mount Glass Passivated Rectifier
Reverse Voltage 50-1000V Forward Current 2A

Features

- Glass passivated standard rectifiers
- Ideal for automated placement
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260°C, 10 seconds
- Low profile



Package: eSGB (SMAF)

Applications

For use of general purpose rectification in lighting, cellular phones, portable devices, power supplies, and other consumer applications.



Maximum Ratings (T_A=25°C unless otherwise specified)

Parameter	Symbol	L2A1	L2A2	L2A3	L2A4	L2A5	L2A6	L2A7	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _L (See Fig.1)	I _{F(AV)}	2.0							A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	55							A
Operating Junction and Storage Temperature	T _J , T _{STG}	- 55 to + 150							°C

Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Test Conditions	Symbol	L2A1	L2A2	L2A3	L2A4	L2A5	L2A6	L2A7	Unit
Maximum Instantaneous Forward Voltage	2 A	V _F	1.1							V
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A =25°C	I _R	5							μA
	T _A =125°C		50							
Typical Reverse Recovery Time	I _F =0.5A, I _R =1.0A,	t _{rr}	1.8							μs
	I _{rr} =0.25A									
Typical Junction Capacitance	4.0 V, 1 MHz	C _J	6							pF

Ratings and Characteristic Curves

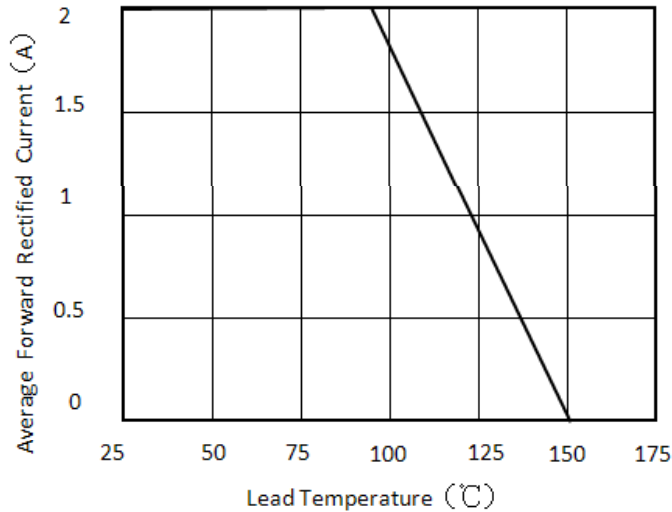


Figure 1. Forward Current Derating Curve

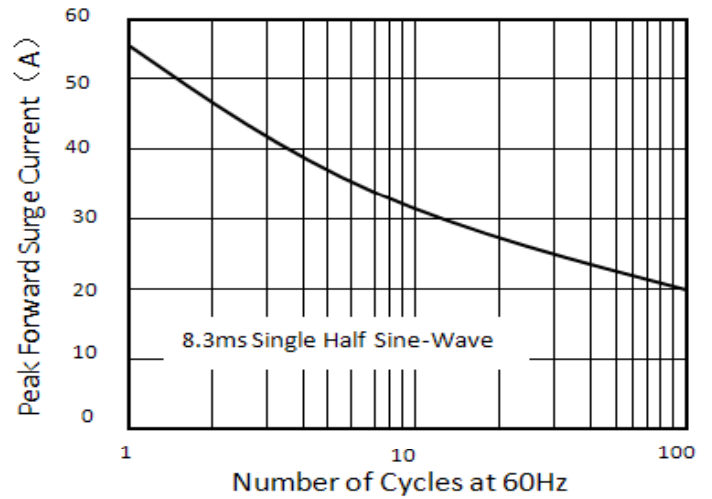


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

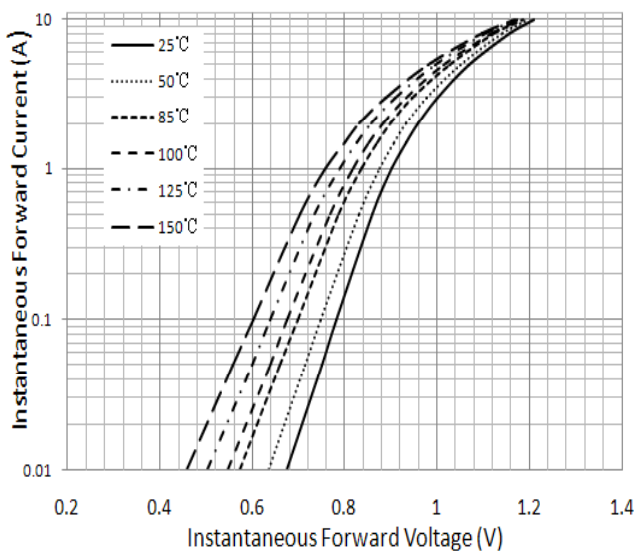


Figure 3. Typical Instantaneous Forward Characteristics

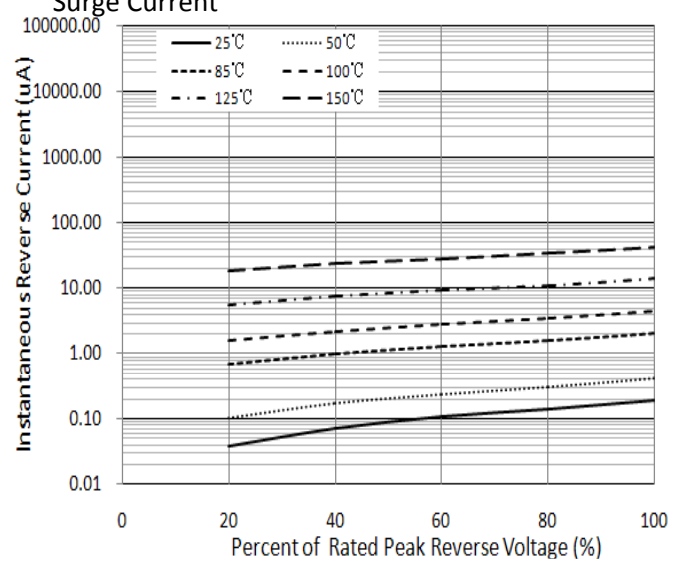


Figure 4. Typical Reverse Characteristics

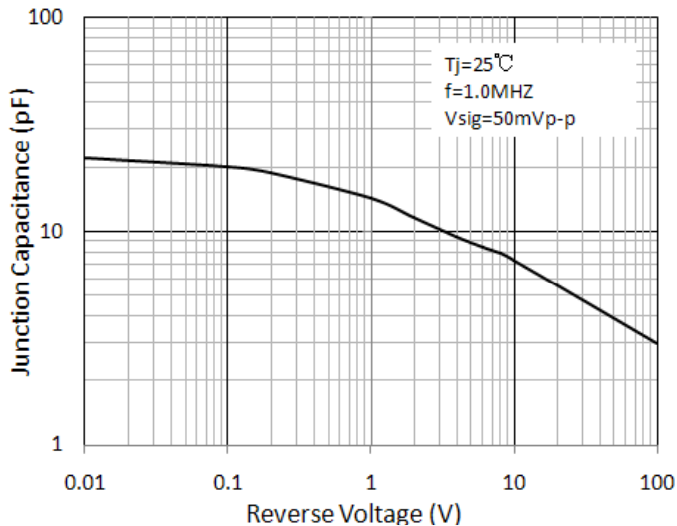


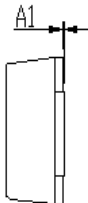
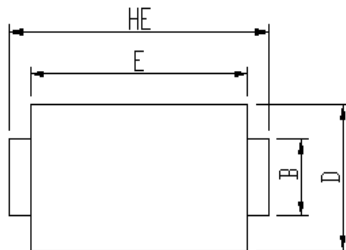
Figure 5. Typical Junction Capacitance

L2A1 thru L2A7

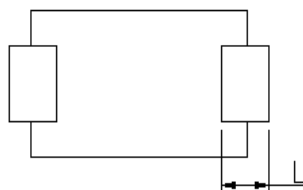
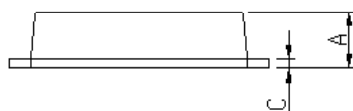
Surface Mount Glass Passivated Rectifier
Reverse Voltage 50-1000V Forward Current 2A

Package Outline Dimensions

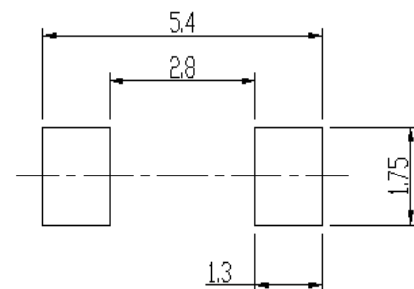
eSGB (SMAF)



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	0.92	1.08	0.036	0.043
A1	0	0.1	0.000	0.004
B	1.25	1.45	0.049	0.057
C	0.1	0.25	0.004	0.010
D	2.6	2.8	0.102	0.110
E	4.1	4.3	0.161	0.169
L	0.7	1.1	0.028	0.043
HE	4.8	5.2	0.189	0.205



Soldering footprint



Packing Information

Packing quantities:

3000 pcs/Reel, 12mm Tape, 13" Reel

Tape & Reel Specification

