

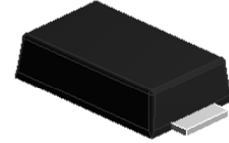


L2A1 thru L2A7/L21A thru L27A

Surface Mount Glass Passivated Standard 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 s
- Low profile, typical thickness 1.0mm
- AEC-Q101 qualified



eSGB (SMAF)

Typical Applications

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

Maximum Ratings (TA = 25 °C unless otherwise noted)									
Parameter	Symbol	L2A1	L2A2	L2A3	L2A4	L2A5	L2A6	L2A7	Unit
		L21A	L22A	L23A	L24A	L25A	L26A	L27A	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	IF(AV)	2.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	55							A
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 150							°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	L2A1	L2A2	L2A3	L2A4	L2A5	L2A6	L2A7	Unit
			L21A	L22A	L23A	L24A	L25A	L26A	L27A	
Maximum instantaneous forward voltage	2 A	VF	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	5							µA
	TA=125°C		50							
Typical reverse recovery time	IF=0.5A, IR=1.0A,	trr	2.3							µS
	Ir=0.25A									
Typical junction capacitance	4.0 V, 1 MHz	CJ	6							pF
Typical thermal resistance ¹⁾	junction to mount	RθJM	20							°C/W

Note:1), The thermal resistance from junction to mount, mounted on P.C.B with 8×8mm copper pads, 2 OZ, FR4 PCB



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Ratings and Characteristics Curves

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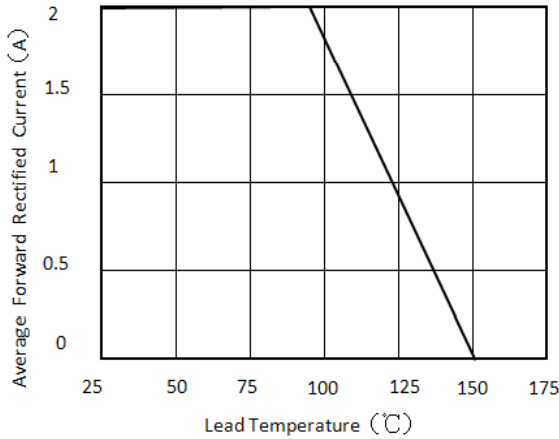


Figure 1. Forward Current Derating Curve

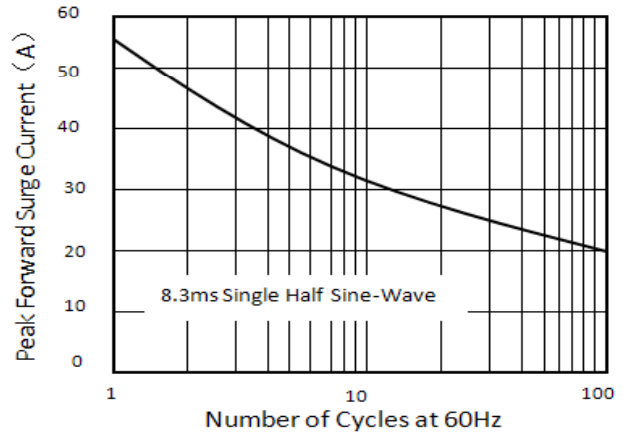


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

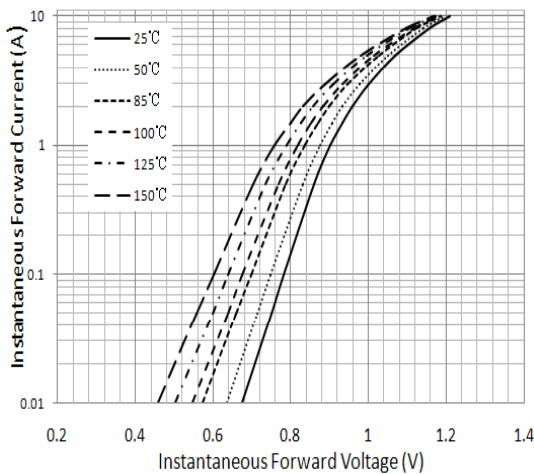


Figure 3. Typical Instantaneous Forward Characteristics

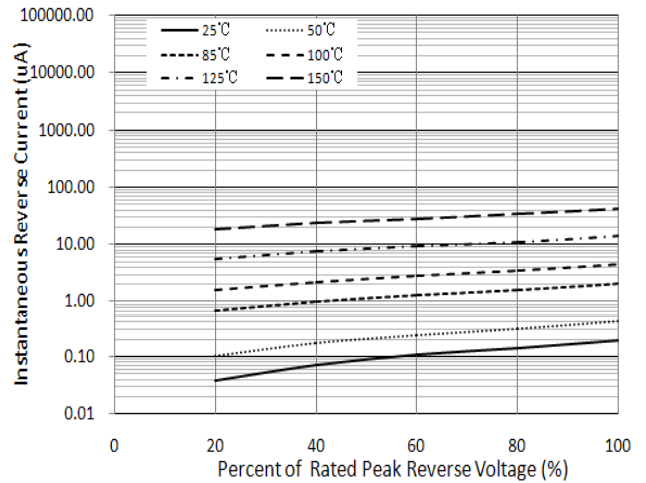


Figure 4. Typical Reverse Characteristics

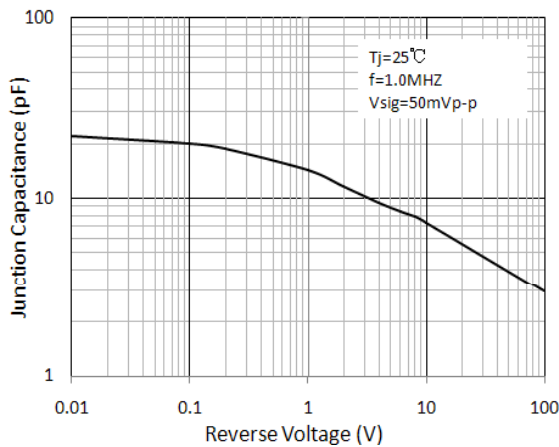
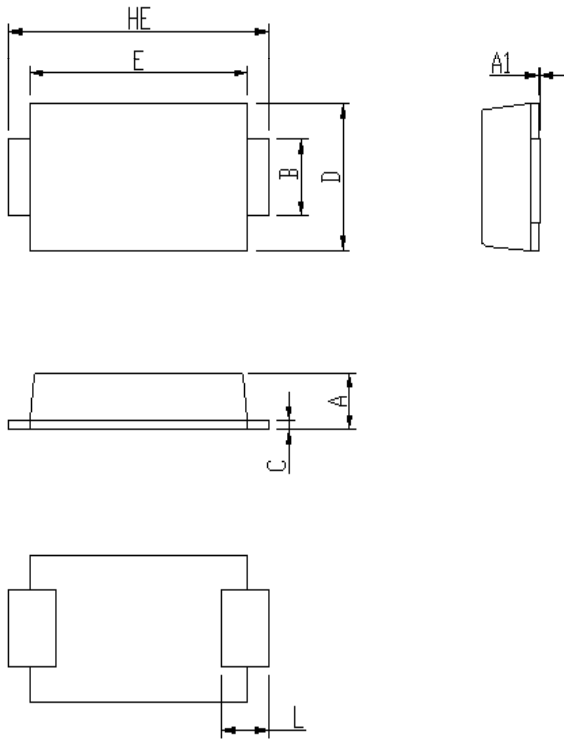


Figure 5. Typical Junction Capacitance

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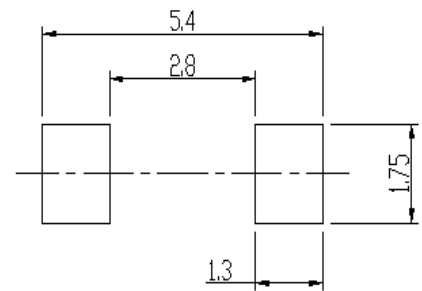
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Package Outline Dimensions



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

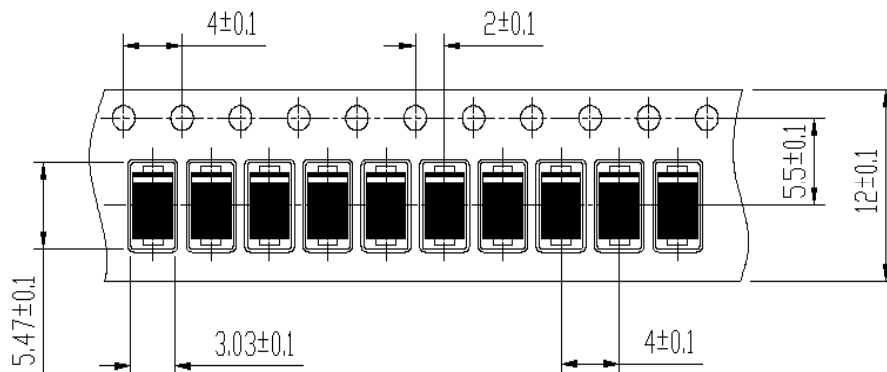


Packing Information

Packing quantities:

Reel size	Quantity/reel	Quantity/inner Box	Quantity/Carton
7"	3K	21K	84K
13"	10K	20K	180K

Tape & Reel Specification





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