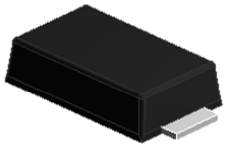
L2A1 thru L2A7/L21A thru L27A

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

RoHS COMPLIANT



eSGB (SMAF)

Typical Applications

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

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

Parameter	Symbol	L2A1 / L21A	L2A2 / L22A	L2A3 / L23A	L2A4 / L24A	L2A5 / L25A	L2A6 / L26A	L2A7 / L27A	Unit
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 (T_A = 25 °C unless otherwise noted)

Parameter	Test Conditions	Symbol	L2A1 / L21A	L2A2 / L22A	L2A3 / L23A	L2A4 / L24A	L2A5 / L25A	L2A6 / L26A	L2A7 / L27A	Unit
Maximum instantaneous forward voltage	2 A	VF	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25℃	IR	5							μA
	TA=125℃		50							
Typical reverse recovery time	I_F=0.5A,I_R=1.0A, I_{rr}=0.25A	t_{rr}	2.3							uS
Typical junction capacitance	4.0 V, 1 MHz	CJ	6							pF
Typical thermal resistance[1)]	juntion to mount	$R_{\theta JM}$	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

Ratings and Characteristics Curves

(TA = 25℃ unless otherwise noted)

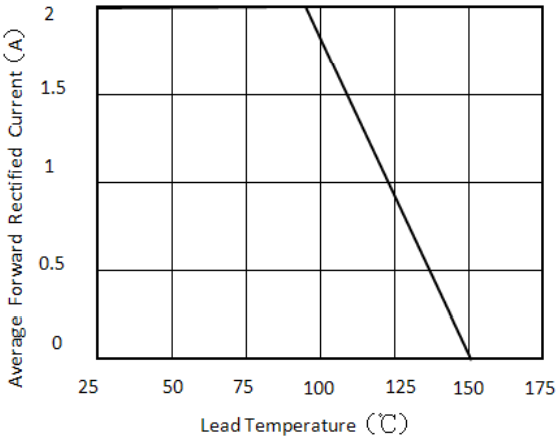


Figure 1.Forward Current Derating Curve

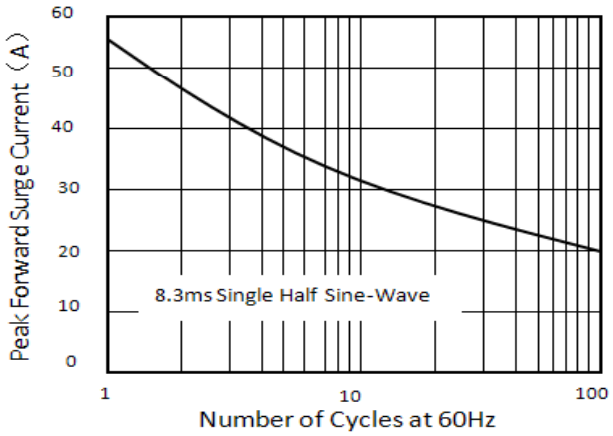


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

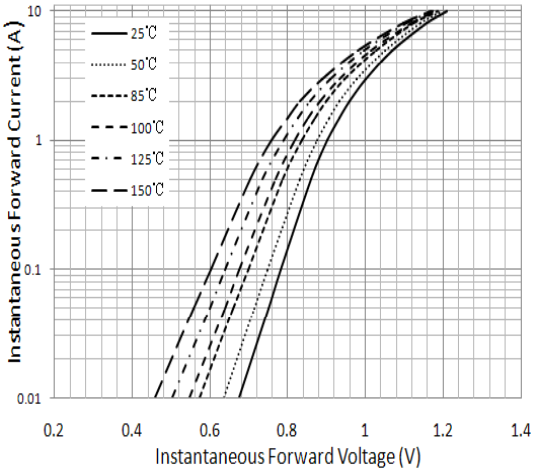


Figure 3. Typical Instantaneous Forward Characteristics

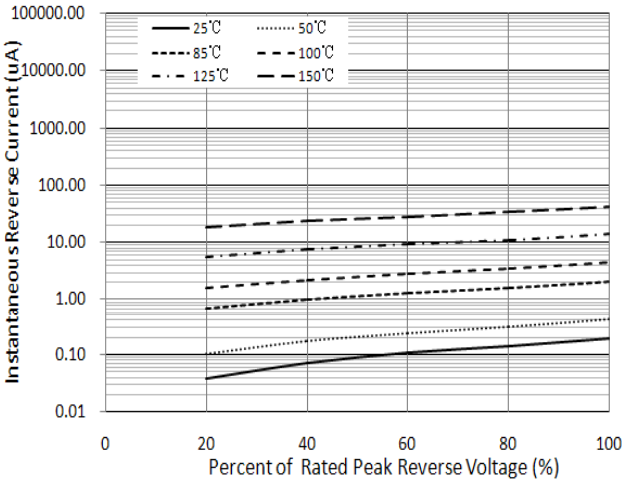


Figure 4. Typical Reverse Characteristics

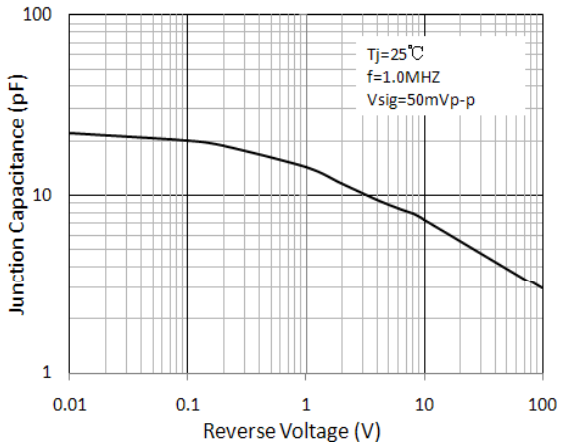


Figure 5. Typical Junction Capacitance

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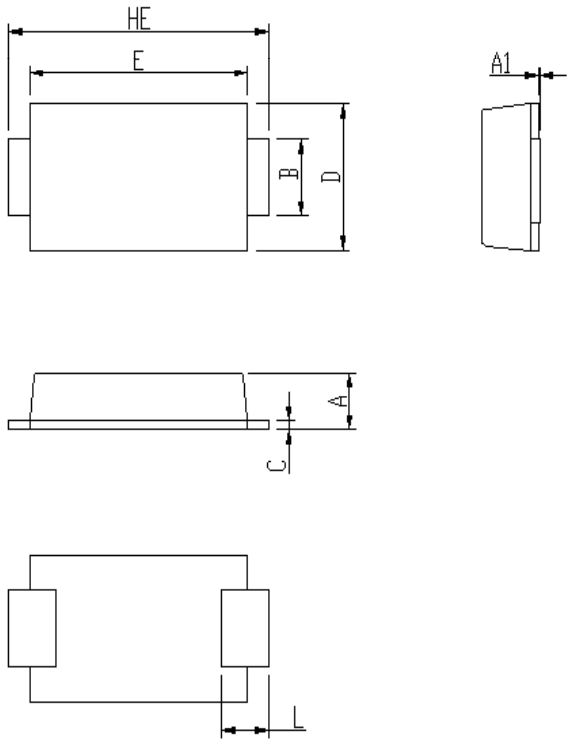
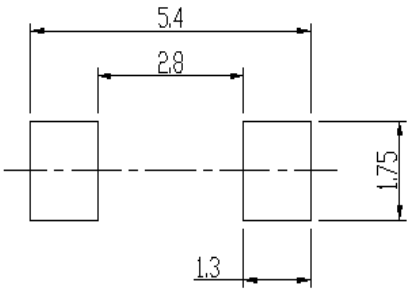
Package Outline Dimensions



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

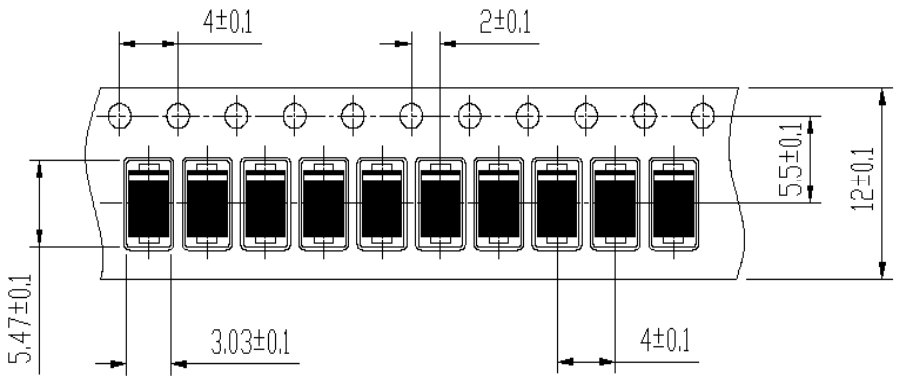


Packing Information

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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