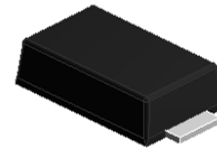


Features

- Glass passivated fast recovery 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 (T _A = 25 °C unless otherwise noted)									
Parameter	Symbol	L2F1	L2F2	L2F3	L2F4	L2F5	L2F6	L2F7	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	60							A
Operating junction and storage temperature range	T _J , T _{STG}	- 55 to + 150							°C

Electrical Characteristics (T _A = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	L2F1	L2F2	L2F3	L2F4	L2F5	L2F6	L2F7	Unit
Maximum instantaneous forward voltage	IF=2 A, TA=25°C	V _F	1.3							V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C TA=125°C	I _R	5 50							μA
Maximum reverse recovery time	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	t _{rr}	150				250	500		nS
Typical junction capacitance	4.0 V, 1 MHz	C _J	11							pF
Typical thermal resistance ¹⁾	junction to mount	R _{θJM}	12							°C/W

Note:1), The thermal resistance from junction to mount, mounted on P.C.B with 8x8mm copper pads, 2 OZ, FR4 PCB



L2F1 thru L2F7

Surface Mount Glass Passivated Fast Recovery Rectifier
 Reverse Voltage 50~1000V Forward Current 2A

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

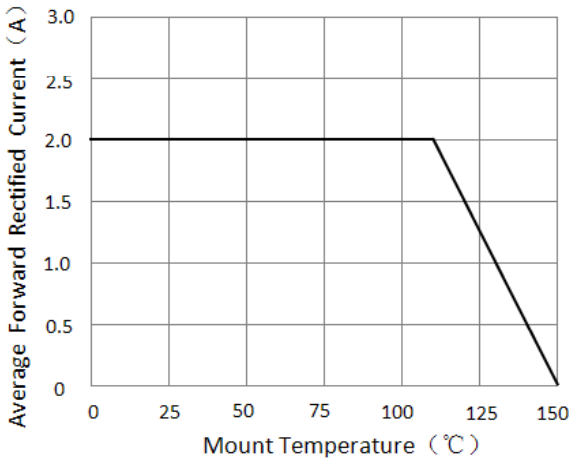


Figure 1. Forward Current Derating Curve

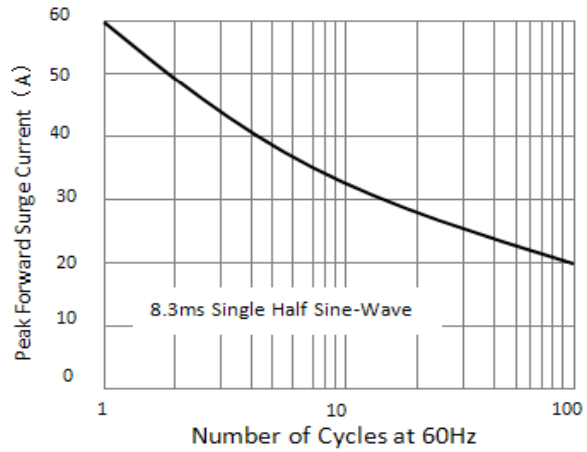


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

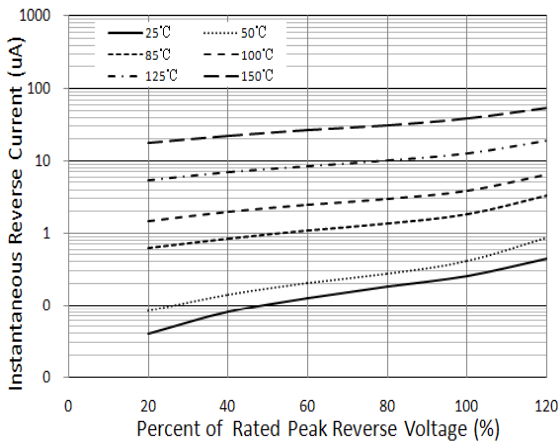


Figure 3. Typical Reverse Characteristics

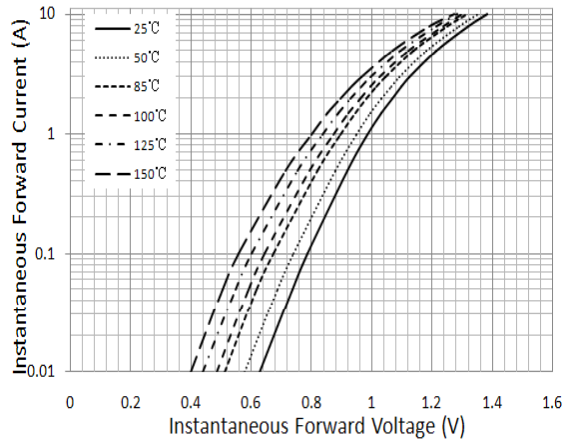


Figure 4. Typical Instantaneous Forward Characteristics

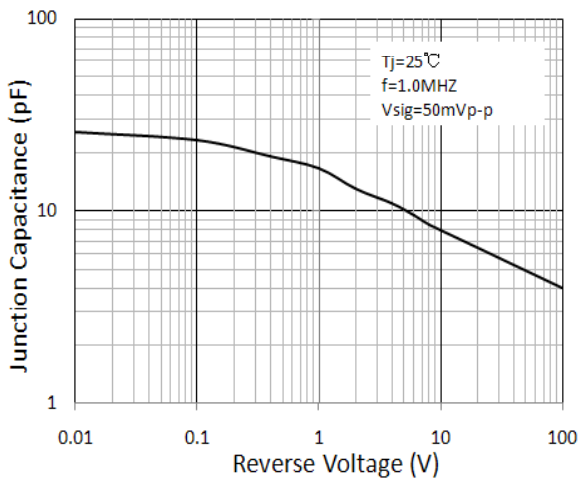


Figure 5. Typical Junction Capacitance

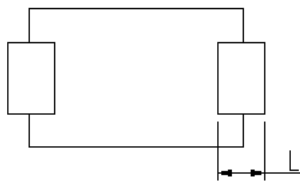
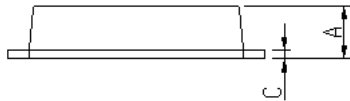
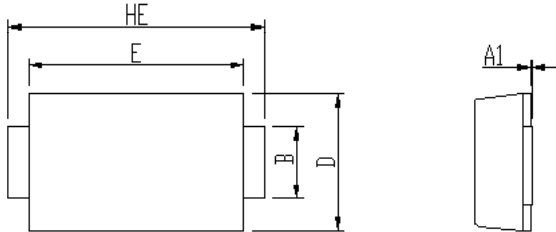


L2F1 thru L2F7

Surface Mount Glass Passivated Fast Recovery Rectifier
 Reverse Voltage 50~1000V Forward Current 2A

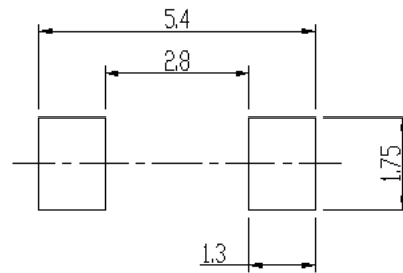
Package Outline Dimensions

in inches (millimeters)



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

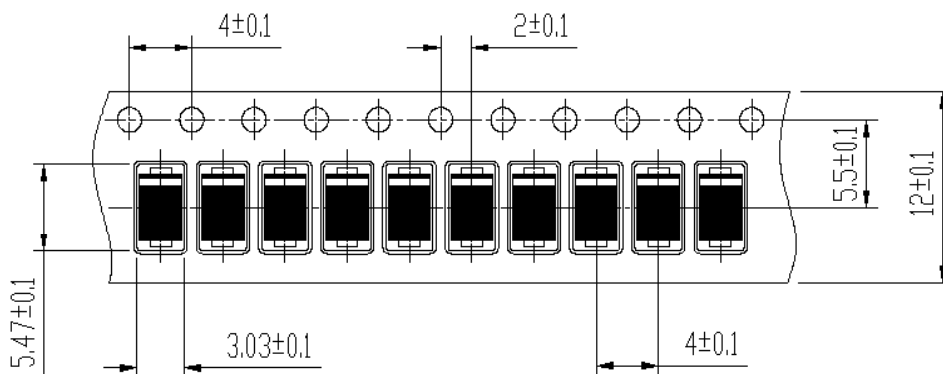


Packing Information

Packing quantities:

10,000 pcs/Reel, 12mm Tape, 13" Reel

Tape & Reel Specification





L2F1 thru L2F7

Surface Mount Glass Passivated Fast Recovery Rectifier
Reverse Voltage 50~1000V Forward Current 2A

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