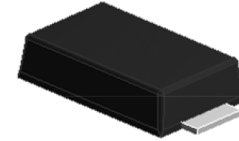


Features

- Glass passivated Superfast Recovery rectifiers
- Ideal for automated placement
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- Low profile, typical thickness 1.0mm



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	L2U1	L2U2	L2U3	L2U4	L2U5	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	V
Maximum RMS voltage	VRMS	35	70	140	280	420	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	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	50					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	L2U1	L2U2	L2U3	L2U4	L2U5	Unit
Maximum instantaneous forward	2 A	VF	1.0			1.3	1.7	Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25℃	IR	5					μA
	TA=125℃		50					
Typical reverse recovery time	IF=0.5A,IR=1.0A, Itr=0.25A	ttr	35					nS
Typical junction capacitance	4.0 V, 1 MHz	CJ	15					pF
Typical thermal resistance ¹⁾	junction to ambient	RθJA	70					°C/W
	junction to mount	RθJM	20					

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

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

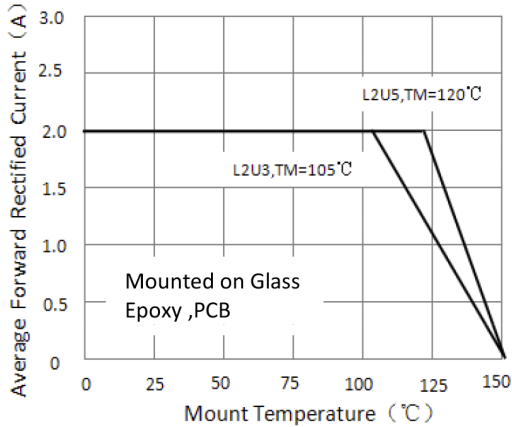


Figure 1. Forward Current Derating Curve

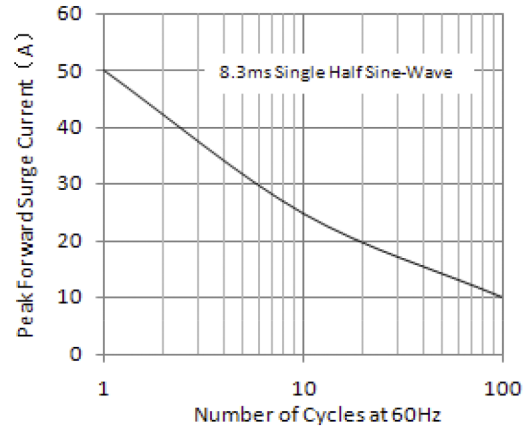


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

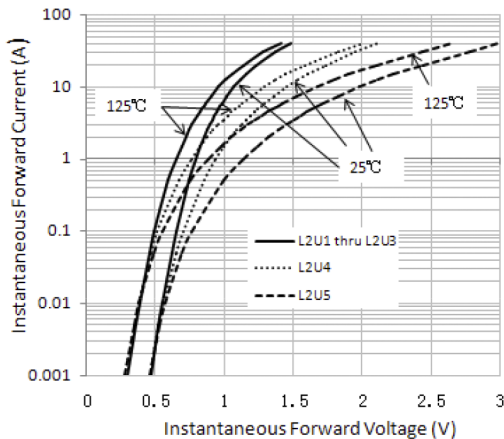


Figure 3. Typical Instantaneous Forward Characteristics

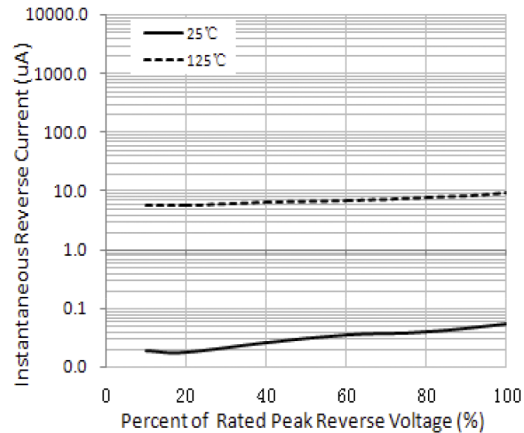


Figure 4. Typical Reverse Characteristics

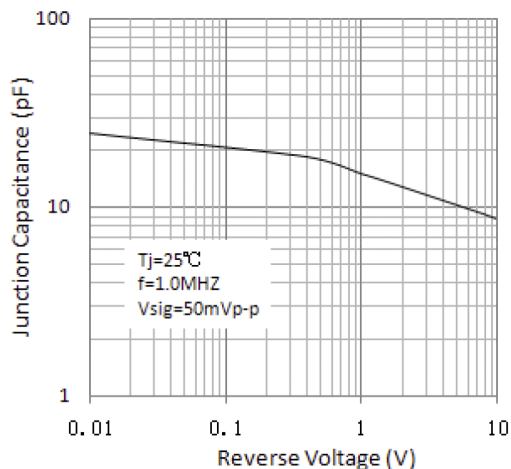
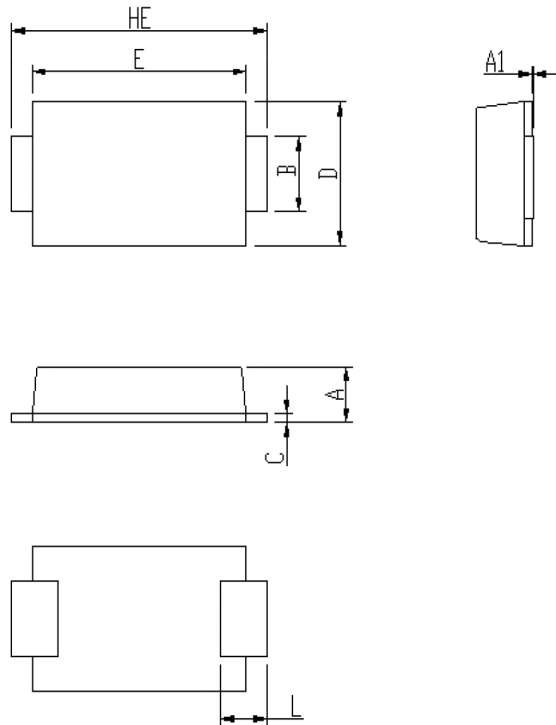


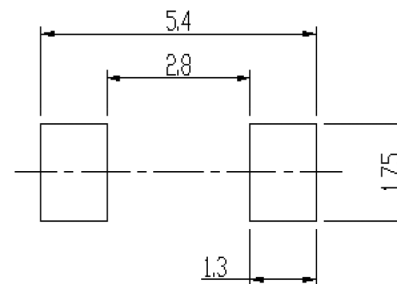
Figure 5. Typical Junction Capacitance

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

