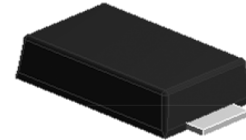


Features

- 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 fast switch rectification in lighting, cellular phone, portable device, power supplies and other consumer applications.

Maximum Ratings (TA = 25 °C unless otherwise noted)					
Parameter	Symbol	L3U1	L3U2	L3U3	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	V
Maximum RMS voltage	VRMS	35	70	140	V
Maximum DC blocking voltage	VDC	50	100	200	V
Maximum average forward rectified current	IF(AV)	3.0			A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	75			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	L3U1	L3U2	L3U3	Unit
Maximum instantaneous forward voltage	3 A	VF	1.0			Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	50			µA
	TA=125°C		10			mA
Typical reverse recovery time	IF=0.5A, IR=1.0A, IRR=0.25A	t _{rr}	35			nS
Typical junction	4.0 V, 1 MHz	C _J	69			pF
Typical thermal resistance	junction to lead	R _{θJL} ¹⁾	20			°C/W

Note1: Thermal resistance from junction to lead, mounted on PCB with 8.0×8.0mm copper pads

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

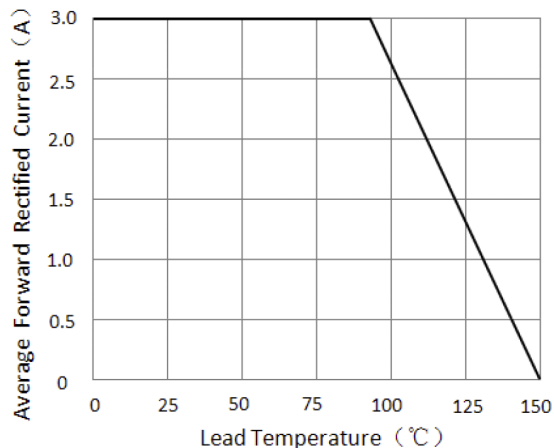


Figure 1. Forward Current Derating Curve

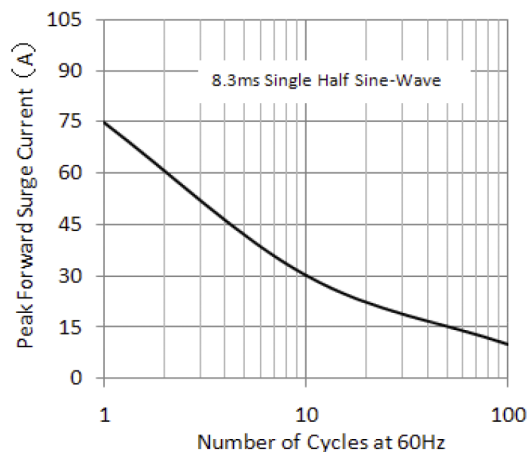


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

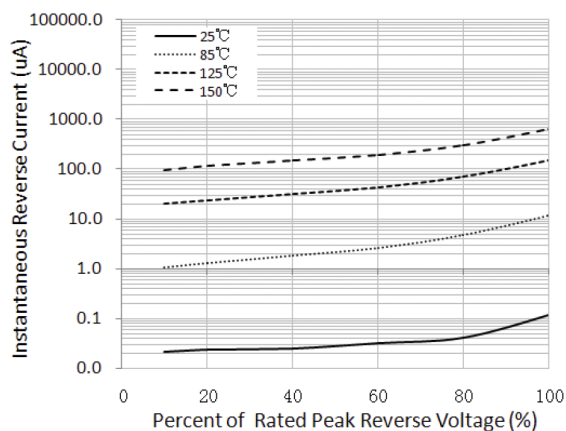


Figure 3. Typical Reverse Characteristics

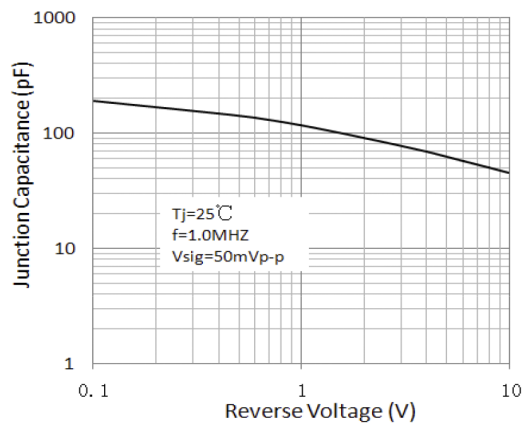


Figure 4. Typical Junction Capacitance

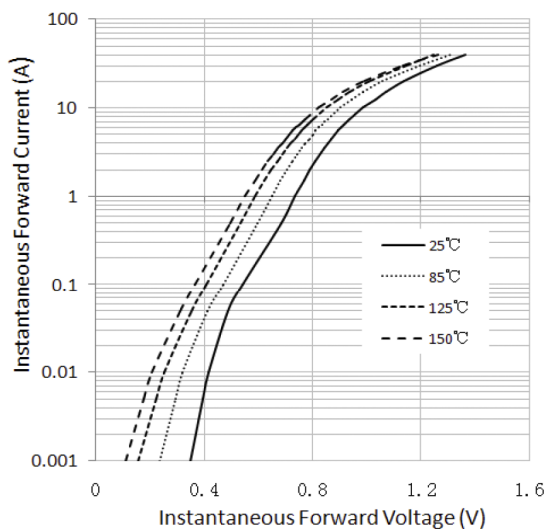
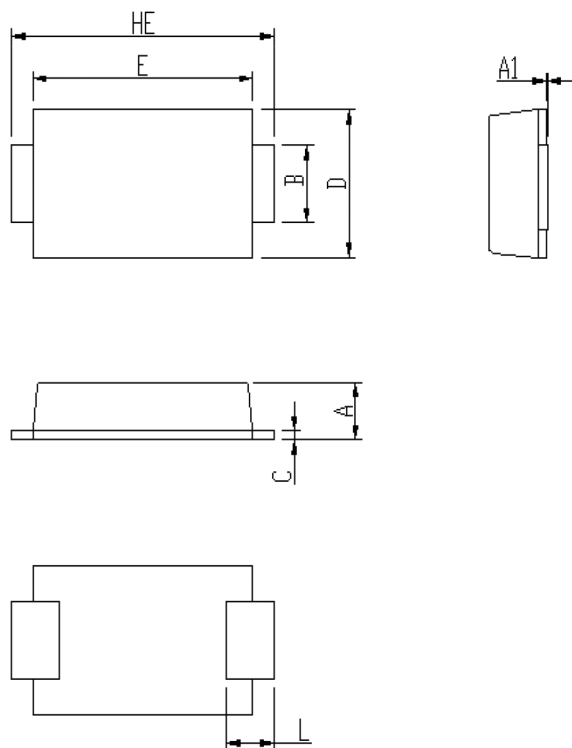


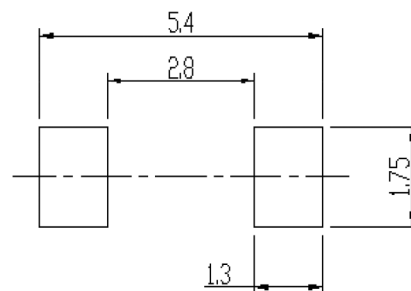
Figure 5. Typical Instantaneous Forward Characteristics

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/Cartron
7"	3K	21K	84K
13"	10K	20K	180K

Tape & Reel Specification

