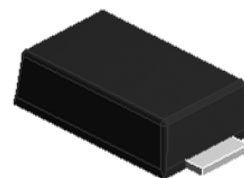


Features

- Schottky barrier diodes
- 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



eSGB (SMAF)

Typical Applications

For use of fast switching in RF module, lighting, cellular phone, portable device, power supplies, and other consumer applications.

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

Parameter	Symbol	LS2BH	LS2B5H	LS2CH	Unit
Maximum repetitive peak reverse voltage	VRRM	100	150	200	V
Maximum RMS voltage	VRMS	70	105	140	V
Maximum DC blocking voltage	VDC	100	150	200	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	LS2BH	LS2B5H	LS2CH	Unit
Maximum instantaneous forward voltage	IF=2A, Tj=25°C	VF	0.85			Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	0.2			mA
	TA=125°C		30			
Typical junction capacitance	4.0 V, 1 MHz	CJ	400			pF
Typical thermal resistance	junction to lead	RθJL	20			°C/W

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

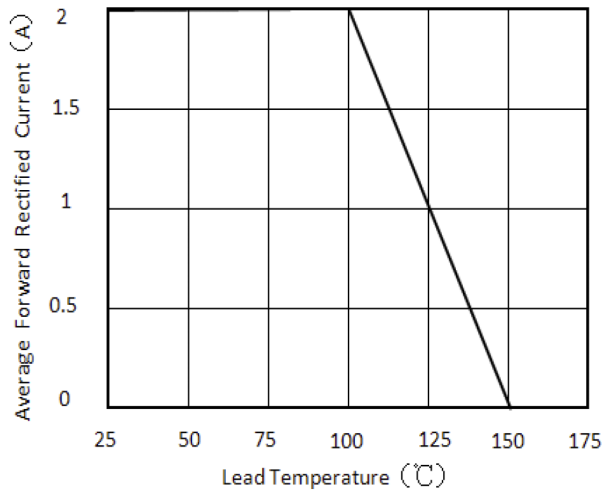


Figure 1. Forward Current Derating Curve

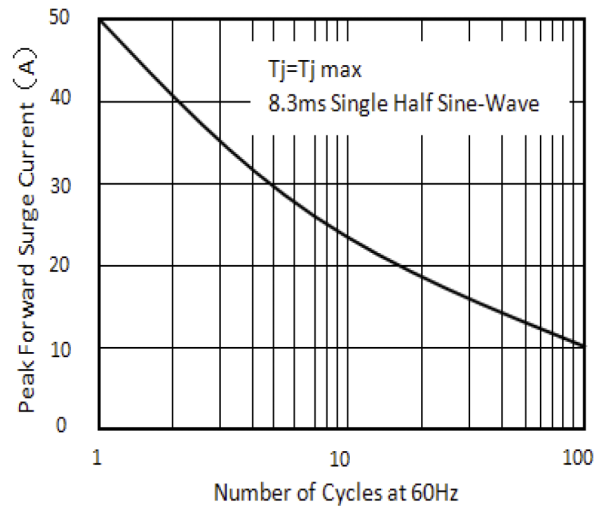


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

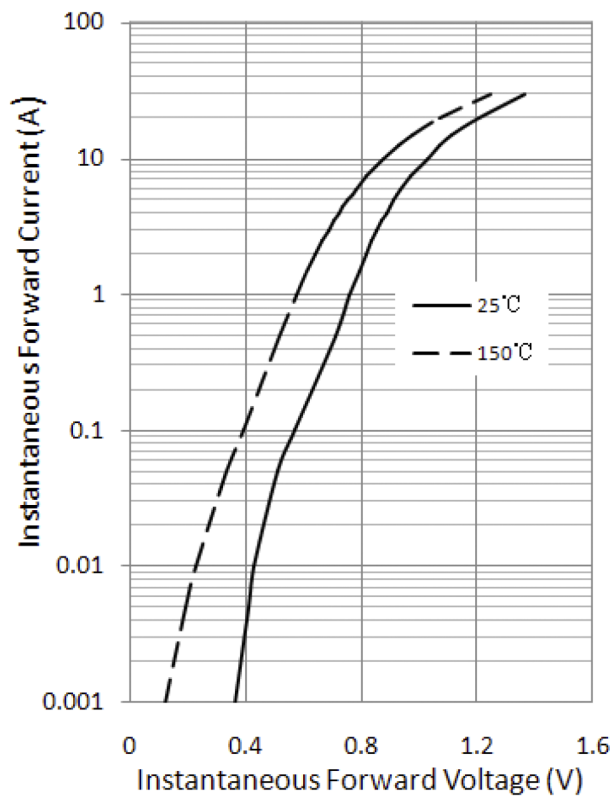


Figure 3. Typical Instantaneous Forward Characteristics

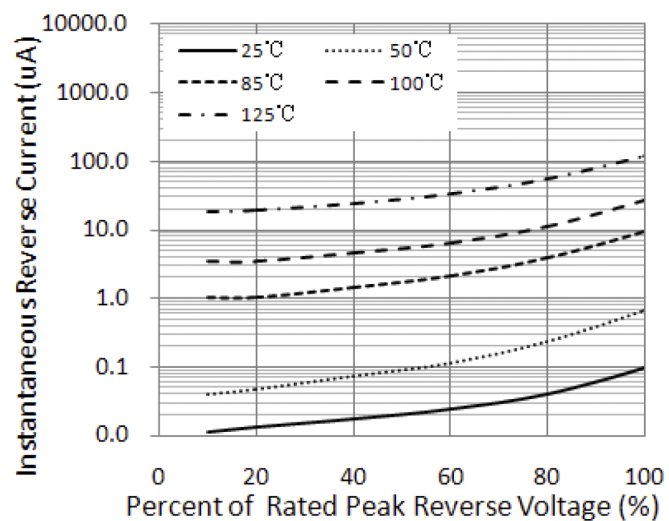
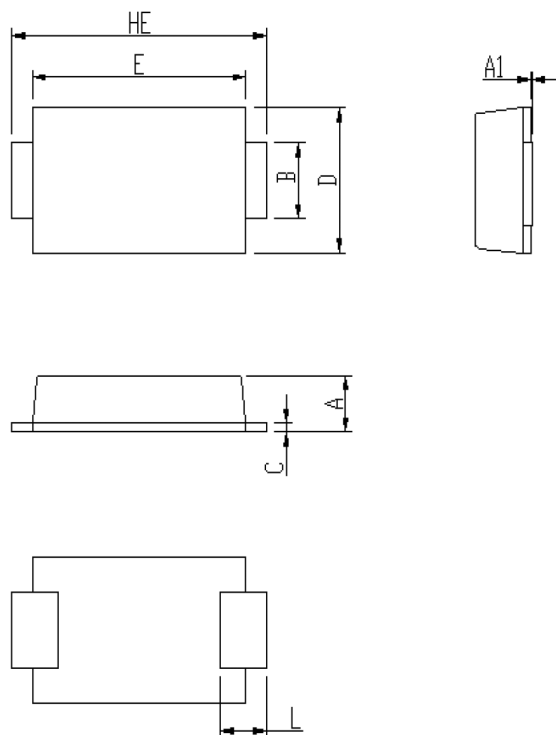


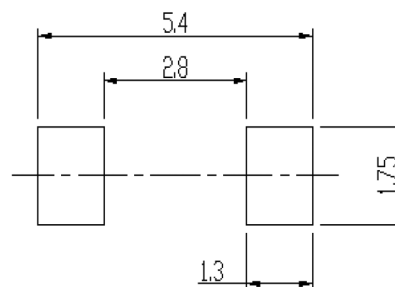
Figure 4. Typical Reverse Characteristics

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	0.8	1.0	0.031	0.039
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

