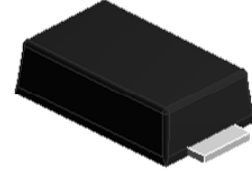


Features

- 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
- AEC-Q101 qualified



eSGB (SMAF)

Typical Applications

For use in low voltage,high frequency inverters,free wheeling, and polarity protection application

Maximum Ratings (TA = 25 °C unless otherwise noted)											
Parameter	Symbol	LS22	LS23	LS24	LS25	LS26	LS27	LS28	LS29	LS2B	Unit
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	70	80	90	100	V
Maximum RMS voltage	VRMS	14	21	28	35	42	49	56	63	70	V
Maximum DC blocking voltage	VDC	20	30	40	50	60	70	80	90	100	V
Maximum average forward rectified current at TL	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	LS22	LS23	LS24	LS25	LS26	LS27	LS28	LS29	LS2B	Unit
Maximum instantaneous forward voltage	IF=2A, TA=25°C	VF	0.55			0.70		0.81				Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	0.5									mA
	TA=125°C		50									
Typical junction capacitance	4.0 V, 1 MHz	C _J	110				60				pF	
Typical thermal resistance	junction to lead	R _{θJL} ¹⁾	20									°C/W

Note1:Thermal resistance from junction to lead,mounted on PCB with 0.315x0.315" (8.0x8.0mm) copper pads

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

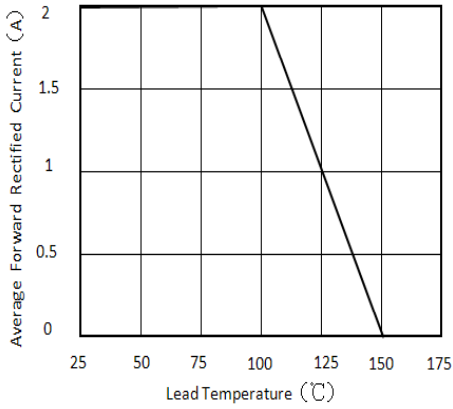


Figure 1. Forward Current Derating Curve

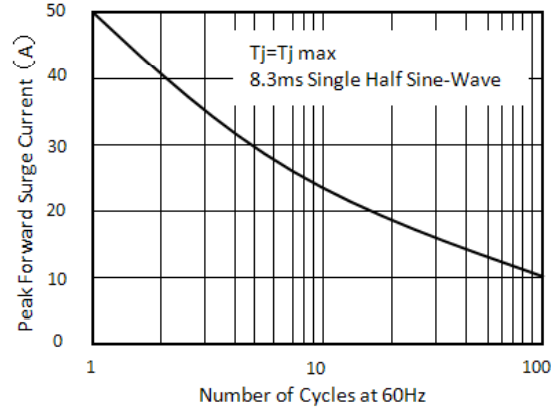


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

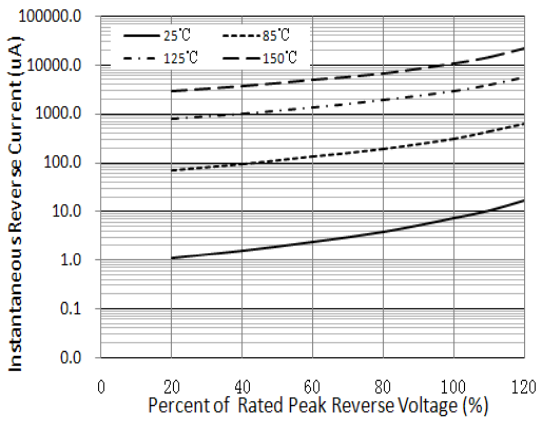


Figure 3. Typical Reverse Characteristics

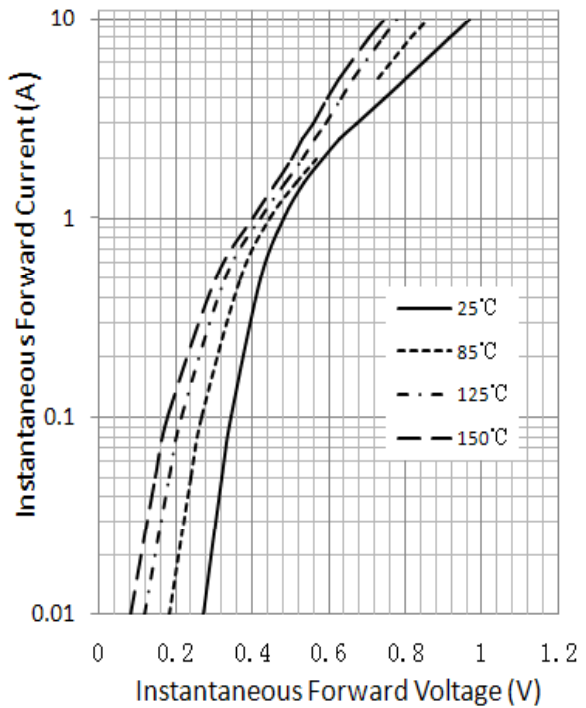
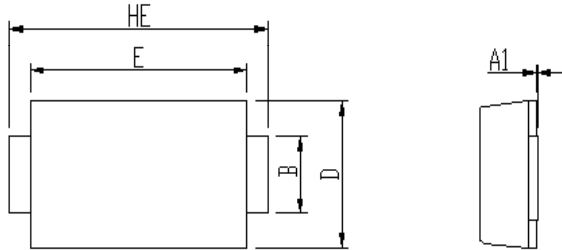


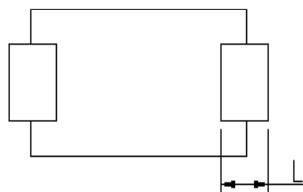
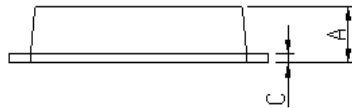
Figure 4. Typical Instantaneous Forward Characteristics

Package Outline Dimensions

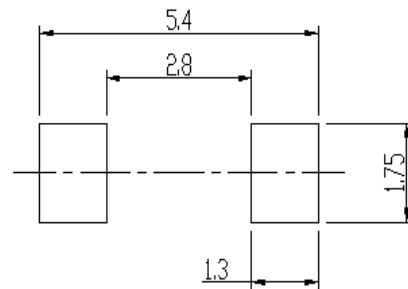
in inches (millimeters)



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	0.8	1.0	0.031	0.039
HE	4.8	5.2	0.189	0.205



Soldering footprint

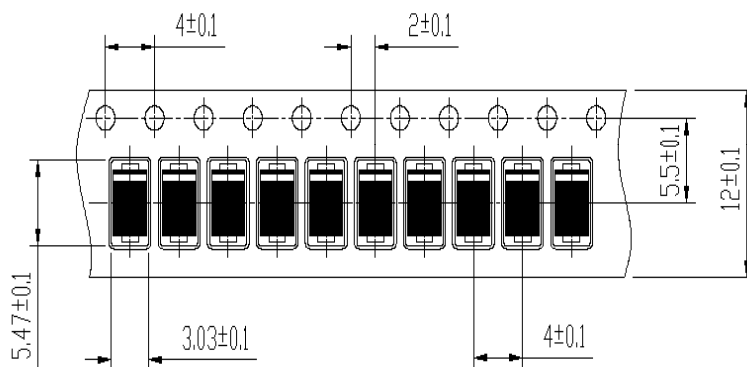


Packing Information

Packing quantities:

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

Tape & Reel Specification





LS22 thru LS2B

Surface Mount Schottky Rectifier
Reverse Voltage 20~100V Forward Current 2A

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