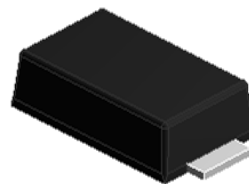


## Features

- 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



RoHS  
COMPLIANT



eSGB (SMAF)

## Typical Applications

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

Maximum Ratings (TA = 25 °C unless otherwise noted)						
Parameter	Symbol	LSL27T	LSL28T	LSL29T	LSL210T	Unit
Maximum repetitive peak reverse voltage	VRRM	70	80	90	100	V
Maximum RMS voltage	VRMS	49	56	63	70	V
Maximum DC blocking voltage	VDC	70	80	90	100	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	Typ.	Max.	Unit
Instantaneous forward voltage	IF=1A, TA=25°C	VF	0.54	0.60	Volts
	IF=2A, TA=25°C		0.65	0.70	
DC reverse current at rated DC blocking voltage	TA=25°C	IR	0.76	5	uA
	TA=125°C		0.86	5	mA
Typical junction capacitance	4.0 V, 1 MHz	C <sub>J</sub>	110		pF
Typical thermal resistance	junction to lead	R <sub>θJL</sub>	14		°C/W

Note1: Thermal resistance from junction to lead, mounted on PCB with 8.0x8.0mm copper pads

## Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

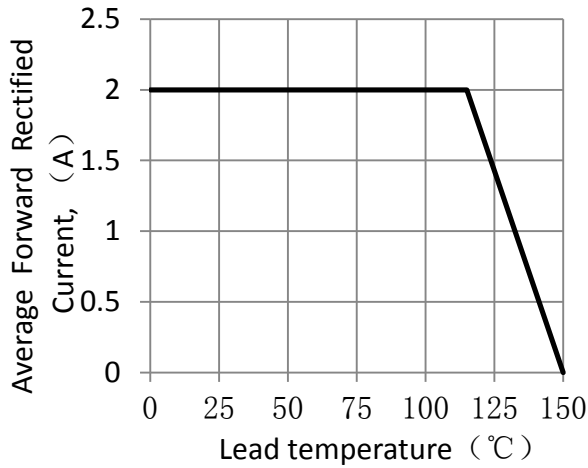


Figure 1. Forward Current Derating Curve

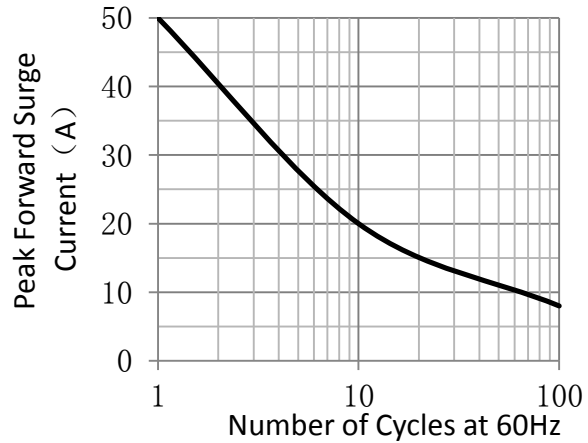


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

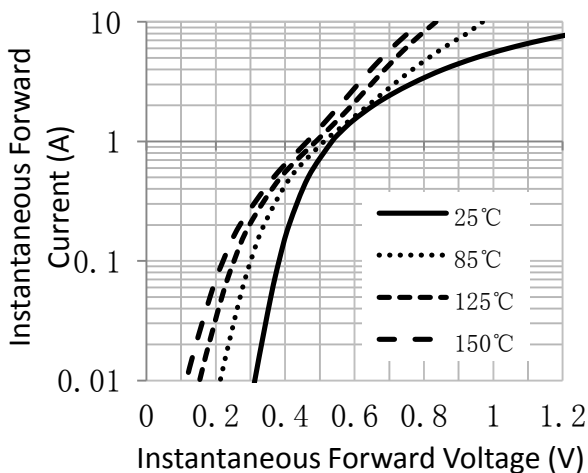


Figure 3. Typical Instantaneous Forward Characteristics

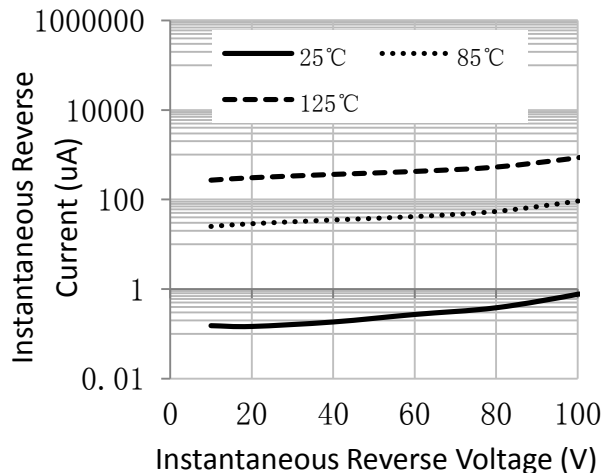


Figure 4. Typical Reverse Characteristics

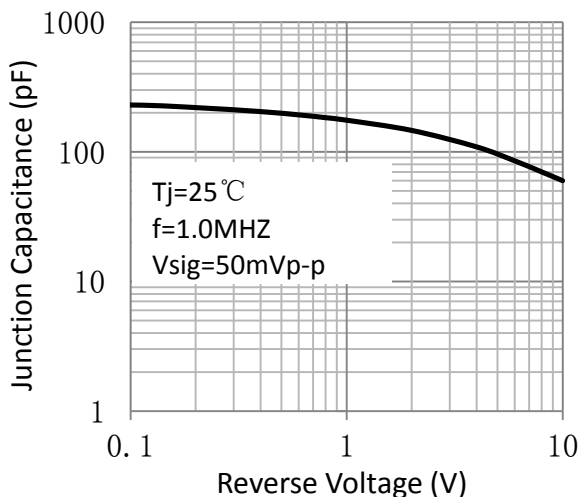
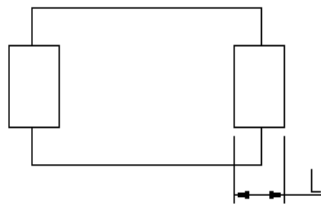
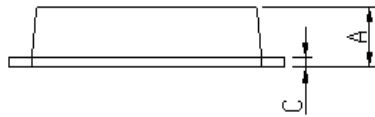
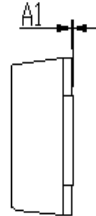
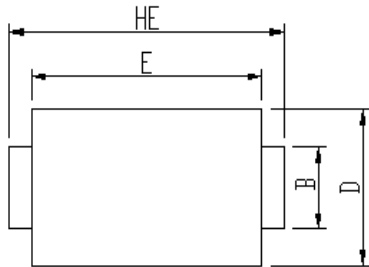


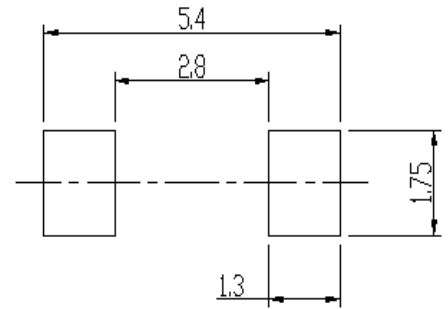
Figure 5. Typical Junction Capacitance

## 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	0.8	1.0	0.031	0.039
HE	4.8	5.2	0.189	0.205

Soldering footprint

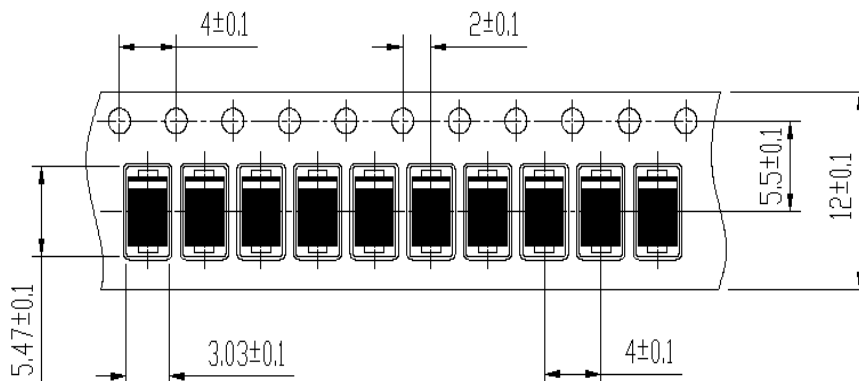


## Packing Information

Packing quantities:

Reel size	Quantity/reel	Quantity/inner Box	Quantity/Carton
7"	3K	21K	84K
13"	10K	20K	180K

Tape & Reel Specification





# LSL27T thru LSL210T

Surface Mount Schottky Rectifier

Reverse Voltage 70~100V Forward Current 2.0A

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