

#### **Features**

- Schottky barrier diodes
- Low forward voltage drop
- Solder dip 260 °C, 10 s
- Low profile, typical thickness 1.0mm
- Moisture sensitivity: level 1, per J-STD-020



eSGB (SMAF)

# **Typical Applications**

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

Maximum Ratings (TA = 25 °C unless otherwise noted)						
Parameter	Symbol	LS2B	Unit			
Maximum repetitive peak reverse voltage	VRRM	100	V			
Maximum RMS voltage	VRMS	70	V			
Maximum DC blocking voltage	VDC	100	V			
Maximum average forward rectified current	IF(AV)	2.0	Α			
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	45	А			
Operating junction and storage temperature range	TJ, TSTG	- 55 to + 150	°C			

Electrical Characteristics (TA = 25 °C unless otherwise noted)						
Parameter	Test Conditions	Symbol	LS2B	Unit		
Maximum instantaneous forward voltage	IF=2A, TA=25℃	VF	0.81	Volts		
Maximum DC reverse current at rated DC blocking voltage	TA=25℃	IR	0.5	mA		
Typical junction capacitance	4.0 V, 1 MHz	CJ	60	pF		
Typical thermal resistance	juntion to mount	R <sub>0JM</sub> <sup>1)</sup>	20	°C/W		

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

2015.01-Rev.A



## **Ratings and Characteristics Curves**

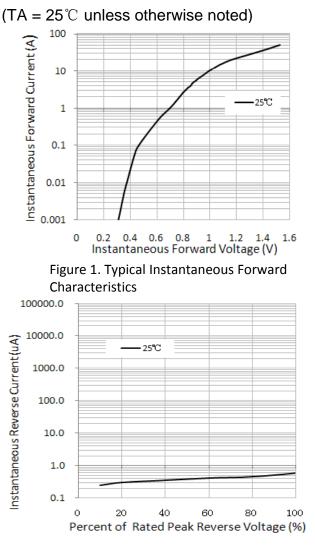


Figure 3. Typical Reverse Characteristics

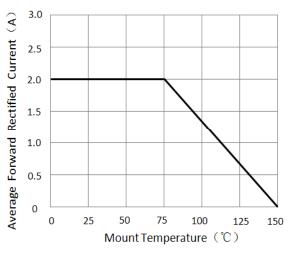


Figure 5. Forward Current Derating Curve

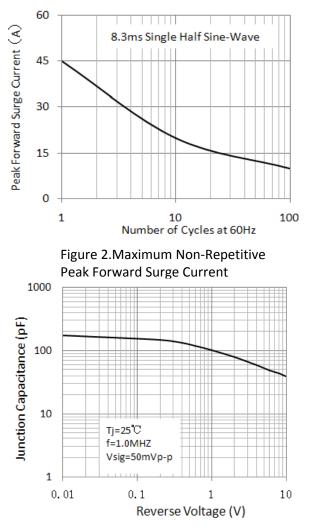


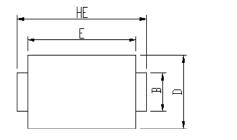
Figure 4. Typical Junction Capacitance



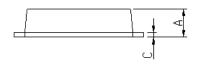
### LS2B Surface Mount Schottky Rectifier Reverse Voltage 100V Forward Current 2A

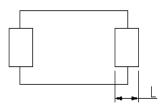
## Package Outline Dimensions

in inches (millimeters)



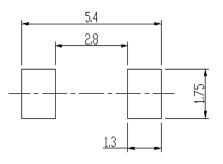






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DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	0.92	1.08	0.036	0.043
A1	0	0.1	0.000	0.004
В	1.25	1.45	0.049	0.057
С	0.1	0.25	0.004	0.010
D	2.6	2.8	0.102	0.110
E	4.1	4.3	0.161	0.169
L	0.7	1.1	0.028	0.043
HE	4.8	5.2	0.189	0.205

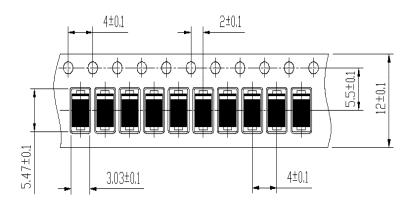
#### Soldering footprint



# Packing Information

Packing quantities: 10,000 pcs/Reel, 12mm Tape, 13" Reel

#### Tape & Reel Specification





# **Disclaimers**

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