



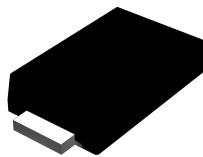
STEIFPOWER  
TECHNOLOGY

**LS24A**

Surface Mount Schottky Rectifier  
Reverse Voltage 40V Forward Current 2A

## Features

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



Package: eSGB(SMAF)

## Applications

For uses in low voltage, high frequency inverters, free wheeling and polarity protection applications.

## Maximum Ratings ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	LS24A	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	2.0	A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I <sub>FSM</sub>	50	A
Operating Junction and Storage Temperature Range	T <sub>J</sub> T <sub>STG</sub>	-55 to +125 -55 to +150	°C

## Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Test Conditions	Symbol	LS24A	Unit
Instantaneous Forward Voltage	I <sub>F</sub> =2A	V <sub>F</sub>	0.50	V
Maximum DC Reverse Current @ rated DC Blocking Voltage	TA=25°C TA=125°C	I <sub>R</sub>	0.5	mA
Typical Junction Capacitance			50	
Typical Thermal Resistance	Junction to Mount	R <sub>θJM</sub>	20	°C/W

Note 1) Thermal resistance from junction to mount, mounted on PCB with 8.0×8.0mm copper pads



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## Ratings and Characteristics Curves ( $T_A = 25^\circ C$ unless otherwise noted)

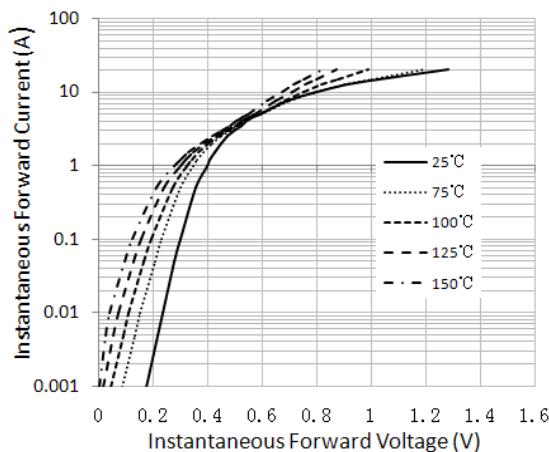


Figure 1. Typical Instantaneous Forward Characteristics

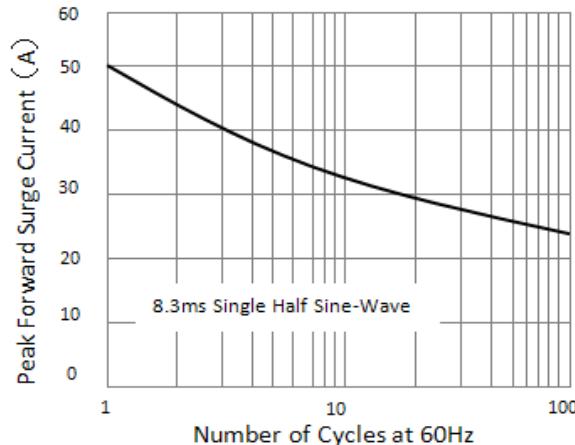


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

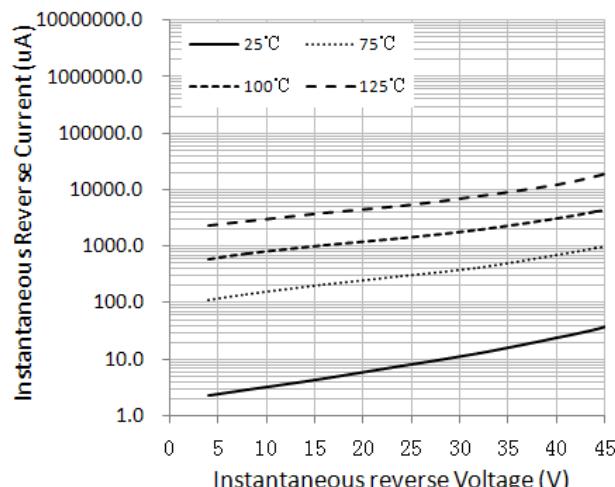


Figure 3. Typical Reverse Characteristics

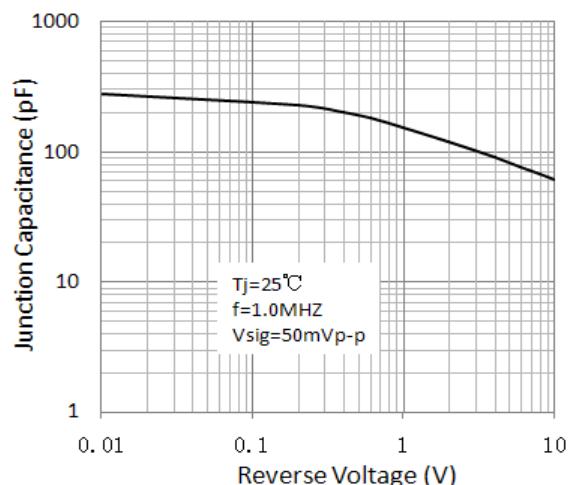


Figure 4. Typical Junction Capacitance

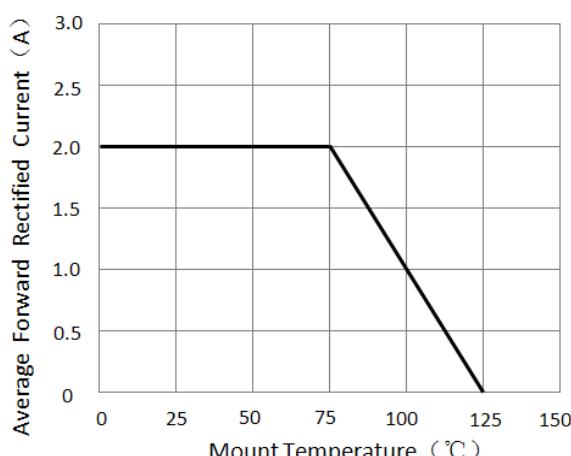


Figure 5. Forward Current Derating Curve



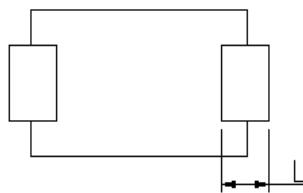
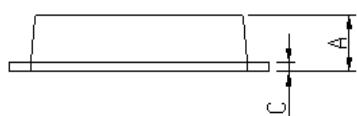
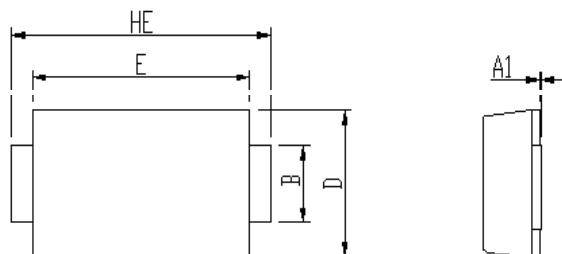
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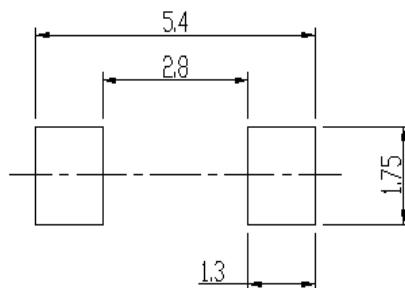
## Package Outline Dimensions

eSGB (SMAF)



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

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

## Tape & Reel Specification

