



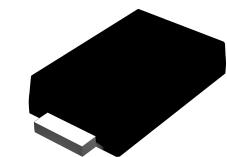
STEIFPOWER
TECHNOLOGY

LS32 thru LS3B

Surface Mount Schottky Rectifier
Reverse Voltage 20-100V Forward Current 3A

Features

- 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



Package: eSGB(SMAF)

Applications

For use 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	LS32	LS33	LS34	LS35	LS36	LS37	LS38	LS39	LS3B	Unit
Maximum Repetitive Peak Reverse	V_{RRM}	20	30	40	50	60	70	80	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	70	80	90	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0								A	
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I_{FSM}	100								A	
Operating Junction and Storage Temperature Range	T_J, T_{STG}	- 55 to + 150								°C	

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

Parameter	Test Conditions	Symbol	LS32	LS33	LS34	LS35	LS36	LS37	LS38	LS39	LS3B	Unit				
Maximum Instantaneous Forward Voltage	$I_F=3\text{A}$	V_F	0.55		0.70		0.85					V				
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	I_R	0.5								mA					
	$T_A=125^\circ\text{C}$		20													
Typical Junction Capacitance	4.0 V, 1 MHz	C_J	290		200		120					pF				
Typical Thermal Resistance	Junction to Lead	$R_{\theta JL}^{(1)}$	25								°C/W					

Note1: Thermal resistance from junction to lead, mounted on PCB with 0.315×0.315 inch (8.0×8.0mm) copper pads.



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

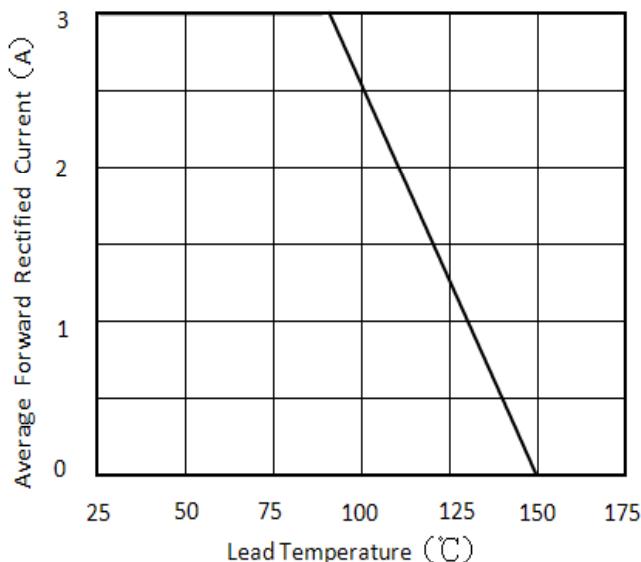


Figure 1. Forward Current Derating Curve

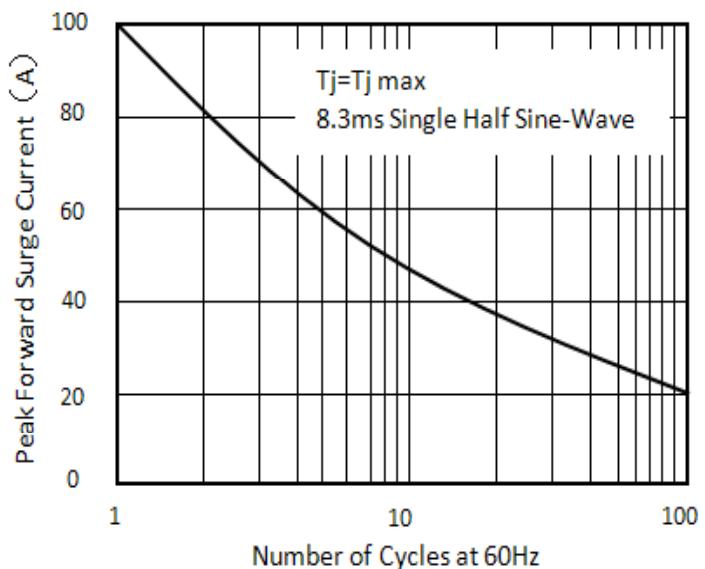


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

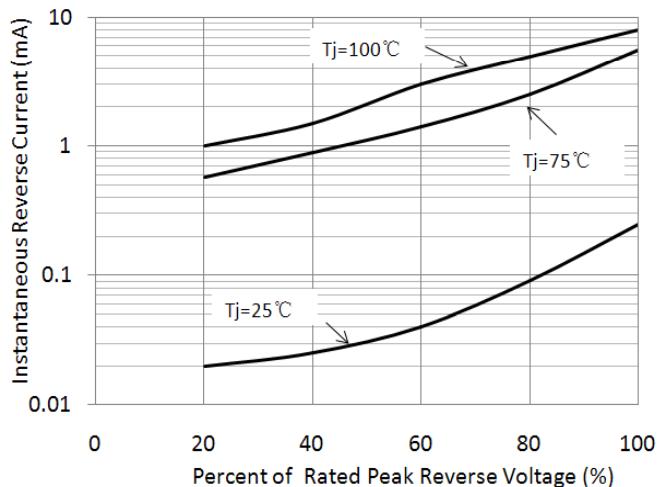


Figure 3. Typical Reverse Characteristics

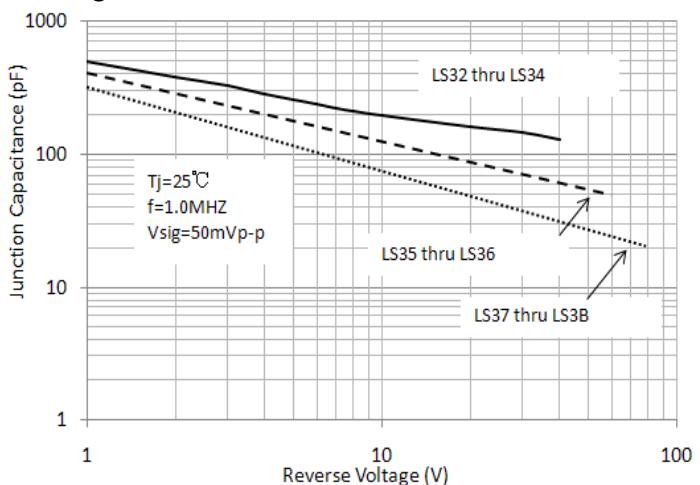


Figure 4. Typical Junction Capacitance

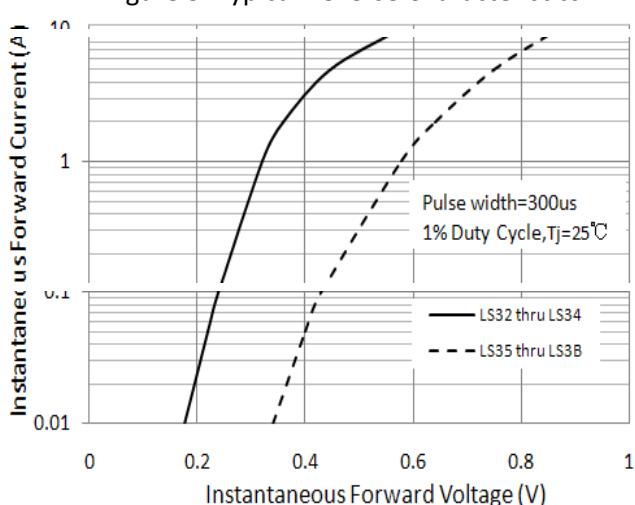


Figure 5. Typical Instantaneous Forward Characteristics



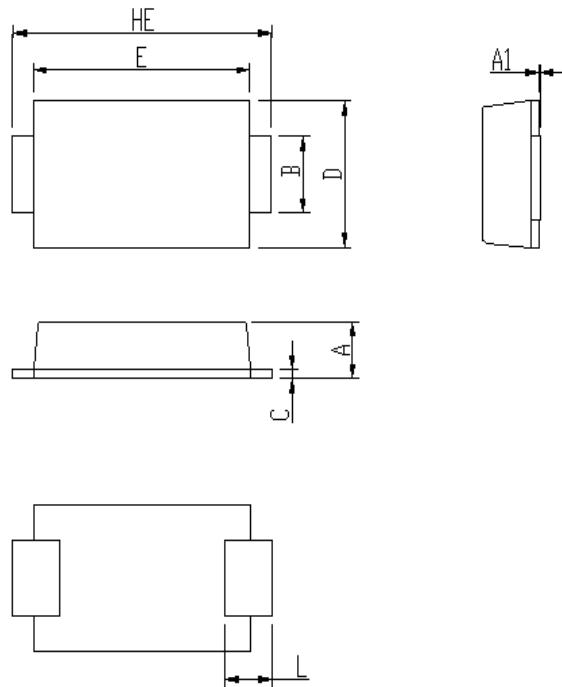
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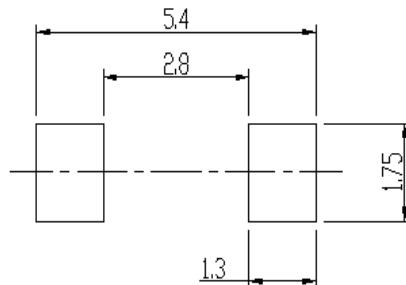
Package Outline Dimensions

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

Packing quantities

3,000 pcs/Reel , 12mm Tape, 13" Reel

Tape & Reel Specification

