



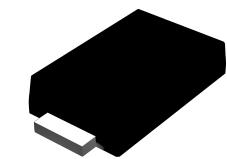
STEIFPOWER
TECHNOLOGY

LS34AS thru LS345AS

Surface Mount Schottky Rectifier
Reverse Voltage 40-50V 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	LS34AS	LS345AS	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	45	V
Maximum RMS Voltage	V_{RMS}	28	31.5	V
Maximum DC Blocking Voltage	V_{DC}	40	45	V
Maximum Average Forward Rectified Current at T_L (Fig.1)	$I_{F(AV)}$	3.0		A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I_{FSM}	60		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	LS34AS	LS345AS	Unit
Maximum Instantaneous Forward Voltage	$I_F=3\text{A}$	V_F	0.45		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	I_R	1		mA
Typical Junction Capacitance	4.0 V, 1 MHz	C_J	180		pF
Typical Thermal Resistance ¹⁾	Junction to case	$R_{\theta JC}$	50		°C/W
	Junction to lead	$R_{\theta JL}$	35		

Note1:Thermal resistance from junction to case and lead,mounted on PCB with 8.0×8.0mm copper pads



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

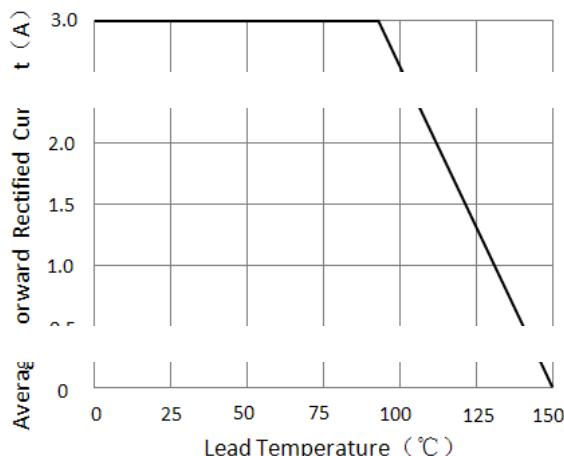


Figure 1. Forward Current Derating Curve

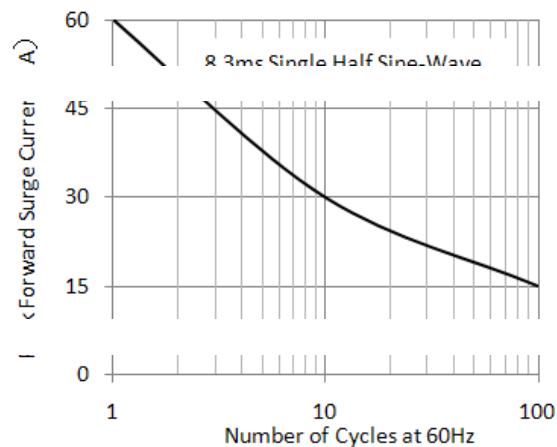


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

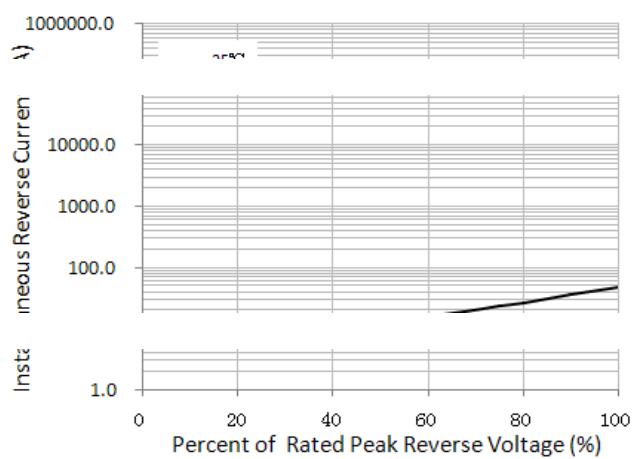


Figure 3. Typical Reverse Characteristics

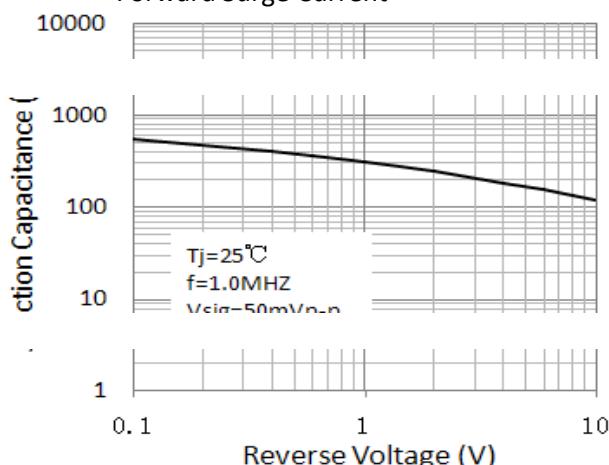


Figure 4. Typical Junction Capacitance

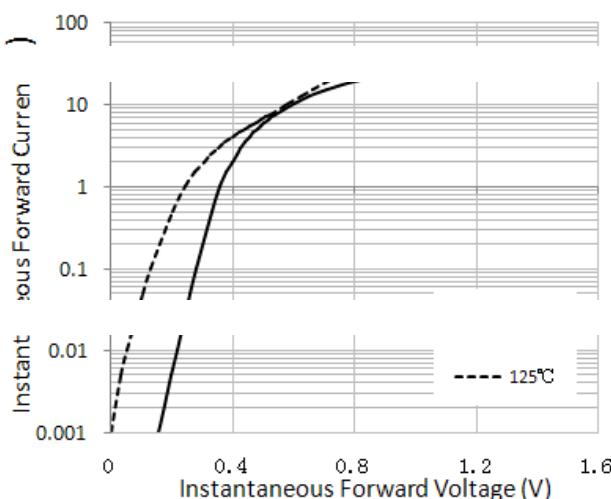


Figure 5. Typical Instantaneous Forward Characteristics



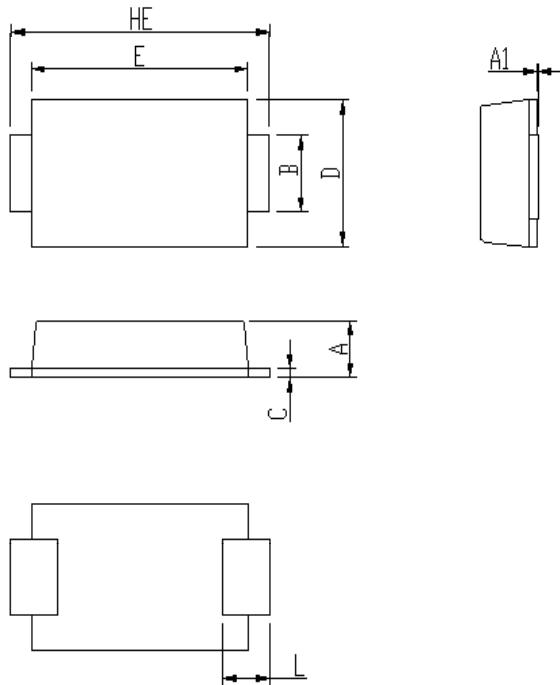
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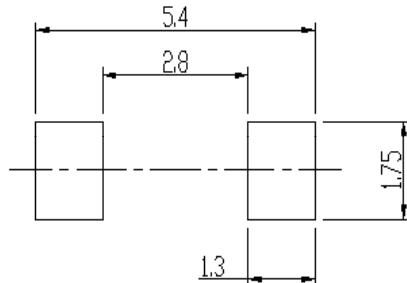
Package Outline Dimensions

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

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

Reel Tape & Reel Specification

