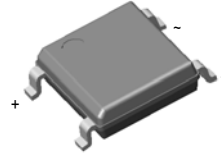
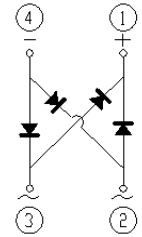


## Features

- Glass passivated standard bridge rectifiers
- Moisture sensitivity: Level 1, per J-STD-020
- Solder dip 260°C, 10s
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Add suffix "E" for Halogen Free
- Halogen-free according to IEC 61249-2-21 definition



Package: ABF



Schematic Diagram

## Applications

For use of general purpose AC-DC bridge rectification in power supply, charger and telecom device applications.

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

Parameter	Symbol	LB1SL	LB2SL	LB4SL	LB6SL	LB8SL	LB10SL	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Maximum Average Output Rectified Current	$I_{O(AV)}$	1.0						A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	$I_{FSM}$	30						A
Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	3.7						$\text{A}^2\text{sec}$
Operating Junction and Storage Temperature Range	$T_J$ , $T_{STG}$	- 55 to + 150						$^\circ\text{C}$

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

Parameter	Test Conditions	Symbol	LB1SL	LB2SL	LB4SL	LB6SL	LB8SL	LB10SL	Unit
Maximum Instantaneous Forward Voltage	$I_F=1.0\text{A}$	$V_F$	1.0						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	$I_R$	10.0						$\mu\text{A}$
	$T_A=125^\circ\text{C}$		100						
Typical Junction Capacitance	4.0 V, 1 MHz	$C_J$	10						pF

## Thermal Characteristics

Parameter	Symbol	LB1SL	LB2SL	LB4SL	LB6SL	LB8SL	LB10SL	Unit
Typical Thermal Resistance <sup>(1)</sup>	$R_{\theta JA}$	80						$^\circ\text{C/W}$
	$R_{\theta JL}$	25						

Notes: 1. Mounted on FR-4 P.C.B Board

## Typical Electrical Characteristic Curves

Fig.1 Forward Current Derating Curve

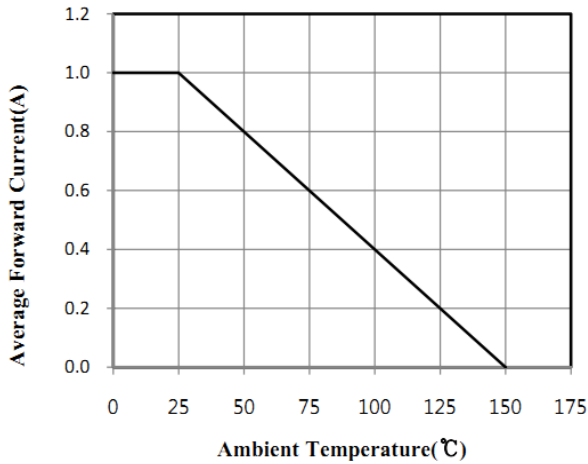


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

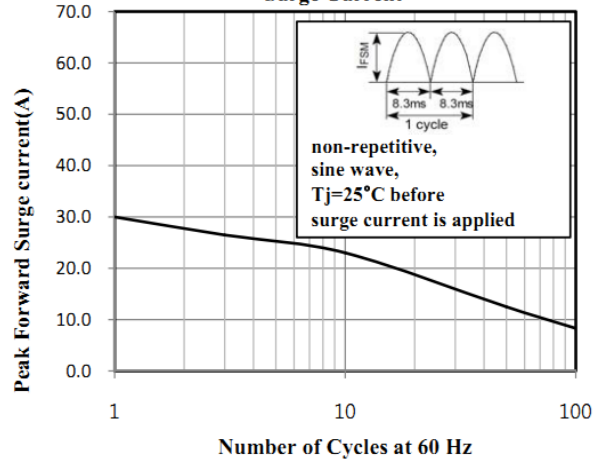


Fig.3 Typical Instantaneous Forward Characteristics

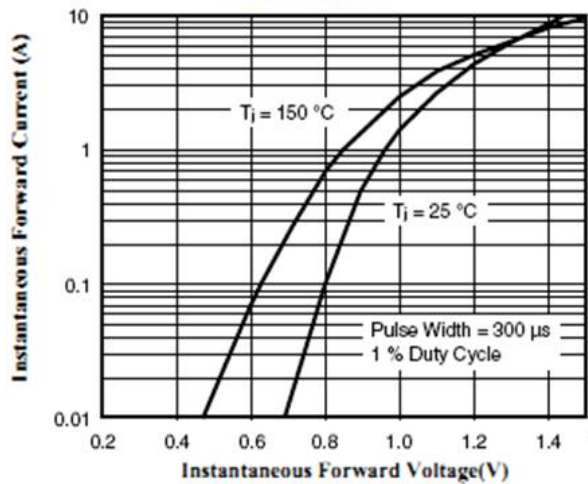


Fig.4 Forward Power Dissipation

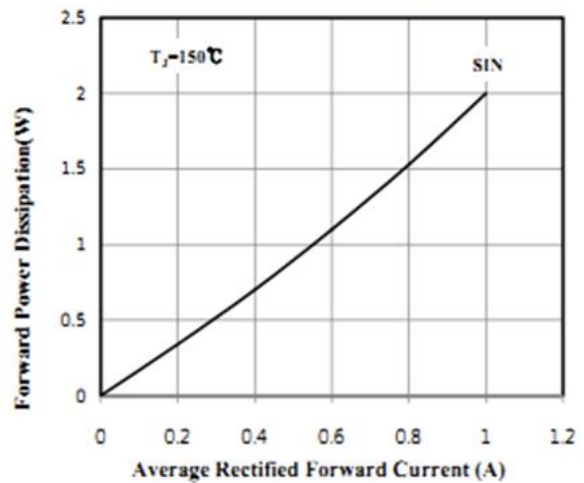
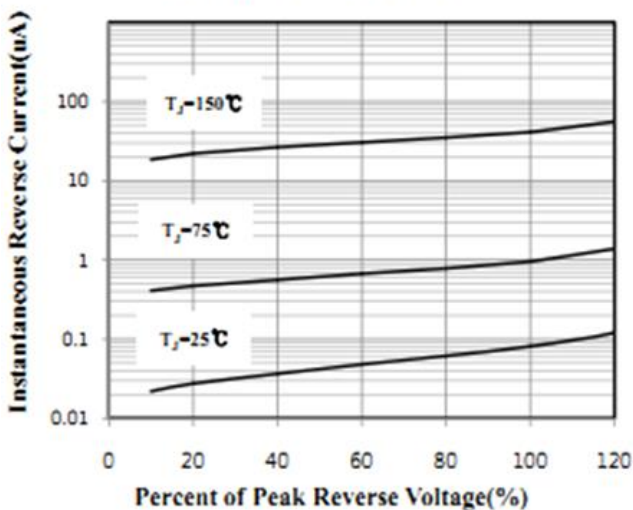


Fig.5 Typical Reverse Characteristics

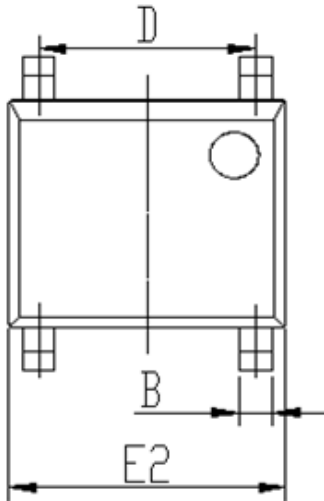


# LB1SL thru LB10SL

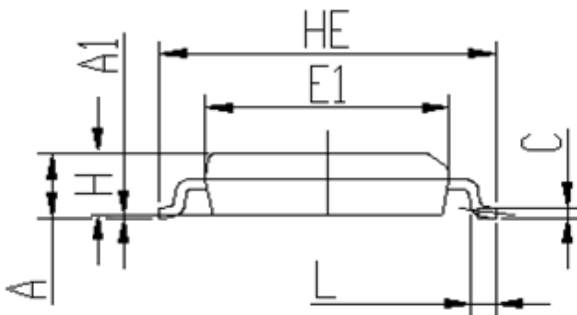
Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers  
 Reverse Voltage 100~1000V Output Current 1.0A

## Package Outline Dimensions

ABF



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	1.25	1.35	0.049	0.053
A1	0.00	0.15	0.000	0.006
B	0.50	0.70	0.020	0.028
C	0.15	0.30	0.006	0.012
D	3.80	4.20	0.150	0.165
E1	4.40	4.60	0.173	0.181
E2	5.00	5.20	0.197	0.205
L	0.25	0.65	0.010	0.026
HE	6.00	6.40	0.236	0.252
H	1.20	1.30	0.047	0.051



## Taping Orientation

