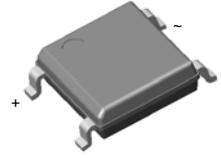


# LB201S thru LB2010S

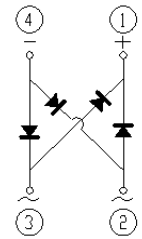
Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers  
 Reverse Voltage 100~1000V Output Current 2.0A

## 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<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	LB201S	LB202S	LB204S	LB206S	LB208S	LB2010S	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	V
Maximum Average Output Rectified Current	I <sub>O(AV)</sub>	2.0						A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I <sub>FSM</sub>	60						A
Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	15						A <sup>2</sup> sec
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 55 to + 150						°C

## Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Test Conditions	Symbol	LB201S	LB202S	LB204S	LB206S	LB208S	LB2010S	Unit
Maximum Instantaneous Forward Voltage	I <sub>F</sub> =2.0A	V <sub>F</sub>	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	5.0						μA
	T <sub>A</sub> =125°C		100						
Typical Junction Capacitance	4.0 V, 1 MHz	C <sub>J</sub>	10						pF

## Thermal Characteristics

Parameter	Symbol	LB201S	LB202S	LB204S	LB206S	LB208S	LB2010S	Unit
Typical Thermal Resistance <sup>(1)</sup>	R <sub>θJA</sub>	80						°C/W
	R <sub>θJL</sub>	25						

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

## Typical Electrical Characteristic Curves

Fig.1 Forward Current Derating Curve

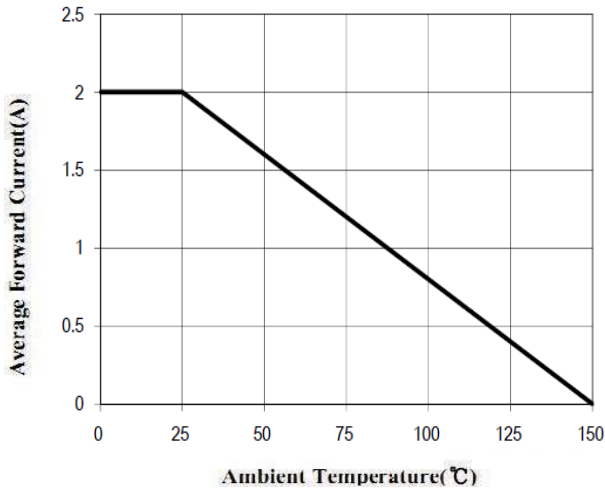


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

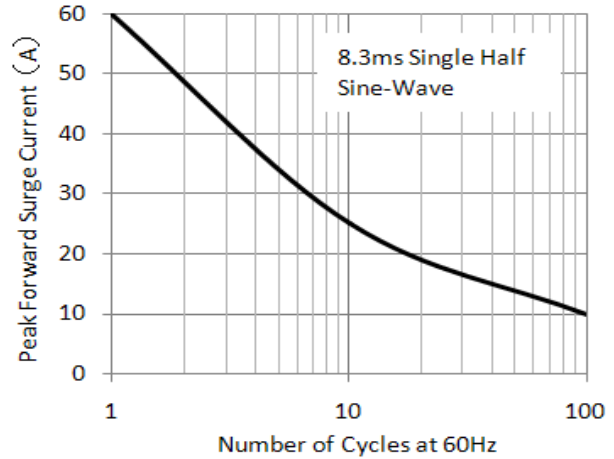


Fig.3 Typical Instantaneous Forward Characteristics

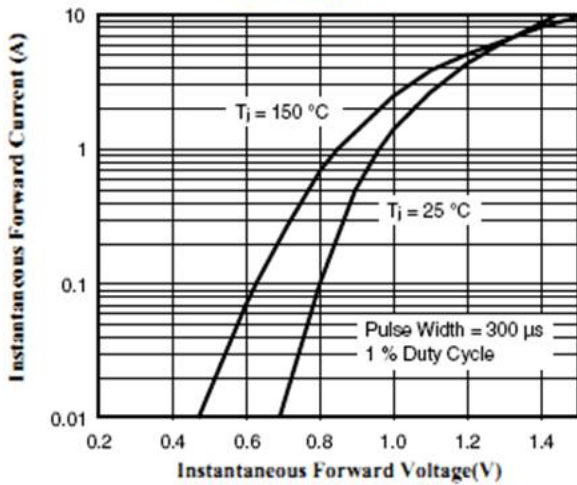


Fig.4 Forward Power Dissipation

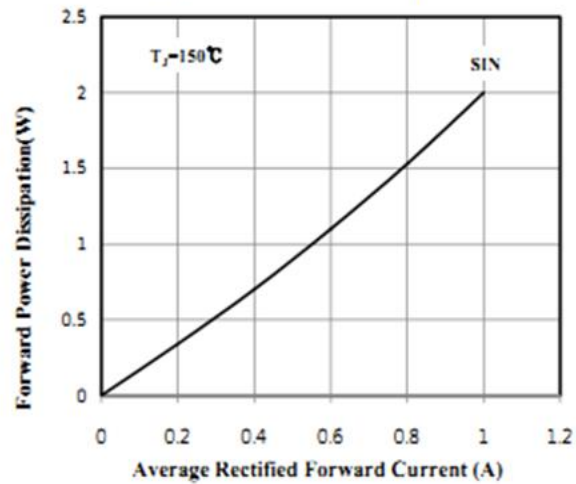
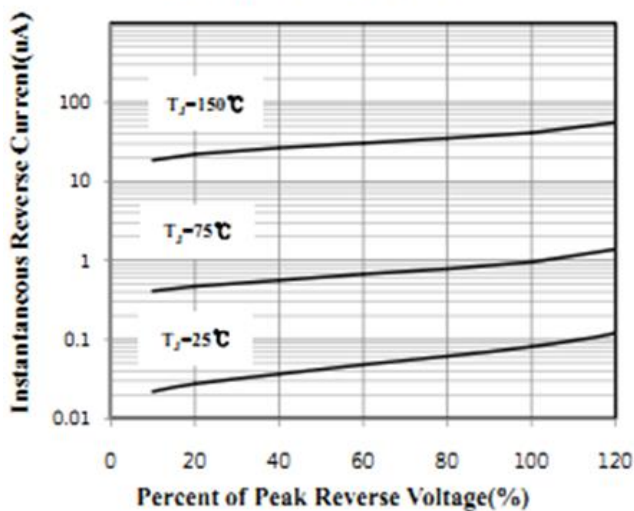


Fig.5 Typical Reverse Characteristics

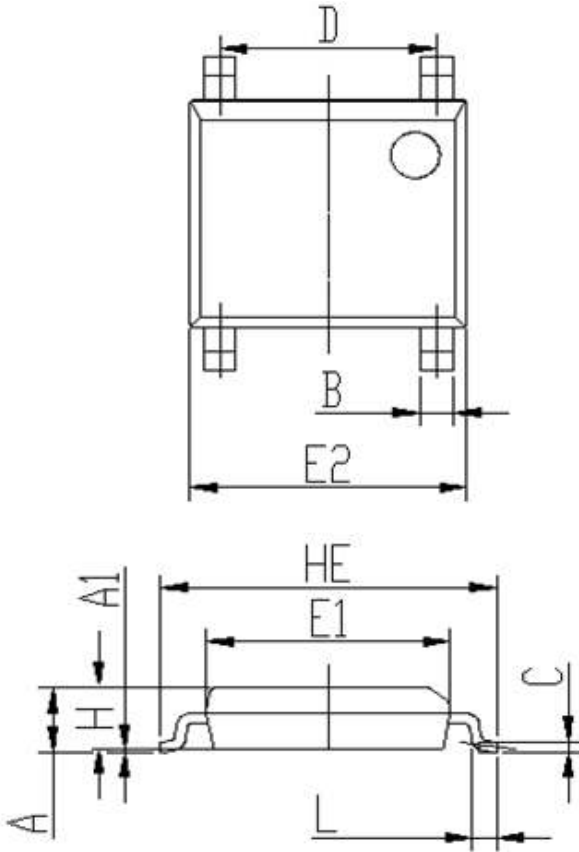


# LB201S thru LB2010S

Low Profile Miniature Single Phase Surface Mount Bridge Rectifiers  
 Reverse Voltage 100~1000V Output Current 2.0A

## 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

