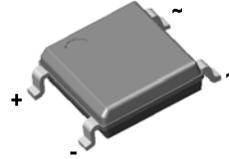


# LB201S thru LB2010S

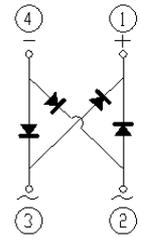
General Purpose Bridge Rectifiers  
 Reverse Voltage 100V to 1000V Output Current 2.0A

## Features

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



ABF



Schematic Diagram

## Applications

For use of general purpose AC to DC bridge rectification in power supply, charger, office appliance, home appliance and telecom device.

## Mechanical Data

- Case: ABF, epoxy meets UL-94V-0 flammability rating
- Terminals: Matte tin plated leads, solderable per J-STD-002B and JESD22-B102D
- Polarity: As marked on body

## 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						A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I <sub>FSM</sub>	55						A	
Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	12.6						A <sup>2</sup> sec	
Typical Junction Capacitance	4.0V, 1MHz	C <sub>J</sub>	25						pF
Typical Thermal Resistance <sup>1</sup>	R <sub>θJA</sub>	80						°C/W	
	R <sub>θJC</sub>	10							
	R <sub>θJL</sub>	25							
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	Symbol	Conditions	LB201S	LB202S	LB204S	LB206S	LB208S	LB2010S	Unit
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =2A, T <sub>A</sub> =25°C	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	T <sub>A</sub> =25°C	5						μA
		T <sub>A</sub> =125°C	100						

Notes:

1. Mounted on FR-4 P.C.B board

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

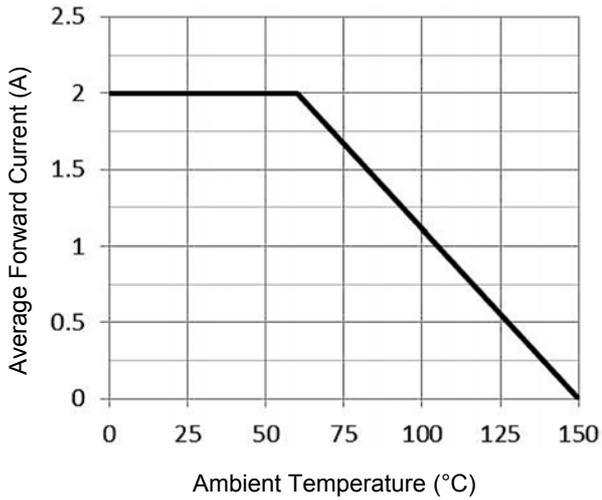


Figure 1. Derating Curve for Output Rectified Current

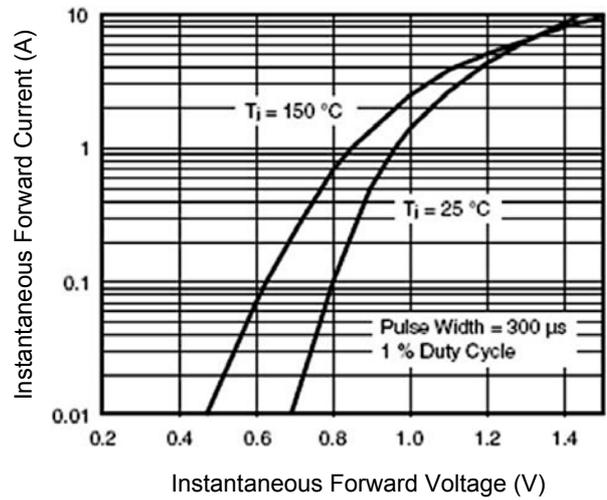


Figure 2. Typical Instantaneous Forward Characteristics

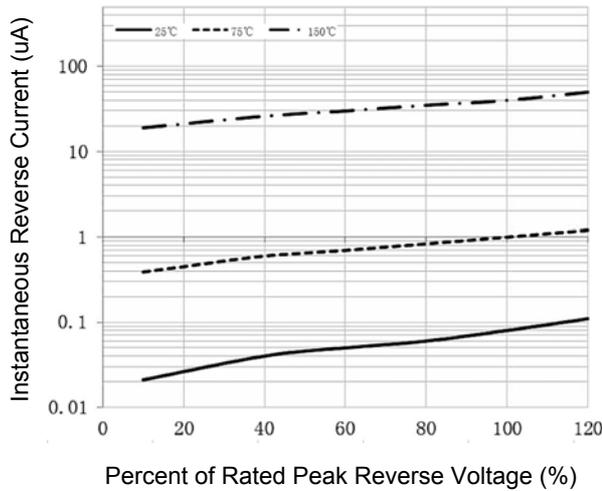


Figure 3. Typical Instantaneous Reverse Characteristics

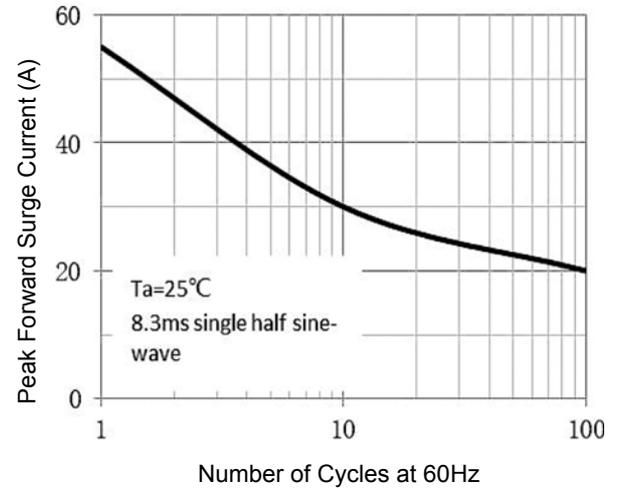
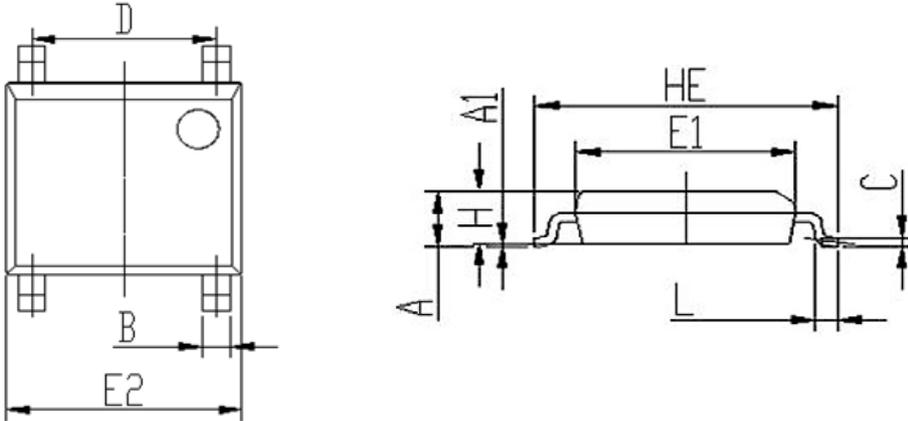


Figure 4. Maximum Non-Repetitive Forward Surge Current

# LB201S thru LB2010S

General Purpose Bridge Rectifiers  
 Reverse Voltage 100V to 1000V Output Current 2.0A

## Package Outline Dimensions (ABF)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	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

## Order Information

Device	Package	Marking	Carrier	Quantity
LB201S	ABF	201S	Tape & Reel	4,000 Pcs / Reel
LB202S	ABF	202S	Tape & Reel	4,000 Pcs / Reel
LB204S	ABF	204S	Tape & Reel	4,000 Pcs / Reel
LB206S	ABF	206S	Tape & Reel	4,000 Pcs / Reel
LB208S	ABF	208S	Tape & Reel	4,000 Pcs / Reel
LB2010S	ABF	2010S	Tape & Reel	4,000 Pcs / Reel