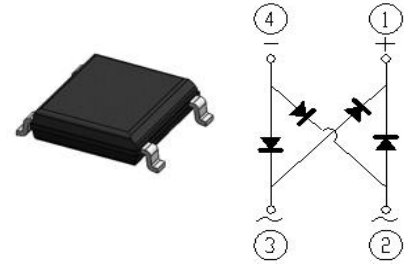


Reverse Voltage 100~1000V Output Current 2.0A

Features

- Case:ABF
- Glass passivated Fast Recovery bridge rectifiers
- Ideal for automated placement
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s
- Plastic package has Underwriters Laboratory Flammability



ABF

Classification 94V-0

- Halogen-free according to IEC 61249-2-21 definition

Typical Applications

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

Mechanical Data

- Case:ABF, Epoxy meets UL-94V-0 Flammability rating Base P/N with suffix"E" on packing code-halogen free
- Terminals:Matte tin plated leads, solderable per J-STD-002B and JESD22-B102D
- Polarity:As markde on body

Maximum Ratings (TA = 25 °C unless otherwise noted)

Parameter	Symbol	LB201SU	LB202SU	LB204SU	LB206SU	LB208SU	LB2010SU	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	$I_{O(AV)}$	2.0						A	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	60						A	
Rating for fusing($t < 8.3ms$)	I^2t	15.0						A ² sec	
Operating junction and storage temperature range	T_J, T_{STG}	- 55 to + 150						°C	
Typical junction capacitance	4.0 V, 1 MHz	C_J	10						pF

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	LB201SU	LB202SU	LB204SU	LB206SU	LB208SU	LB2010SU	Unit
Maximum instantaneous forward	IF=2A TA=25°C	V _F	1.1						Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5.0						µA
	TA=125°C		100						
Typical thermal resistance ⁽¹⁾		R _{θJA}	70						°C /W
		R _{θJC}	28						
		R _{θJL}	23						

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

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

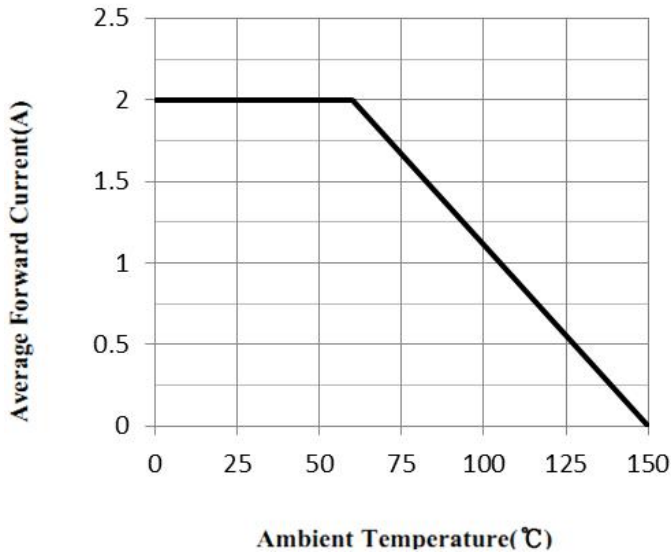


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

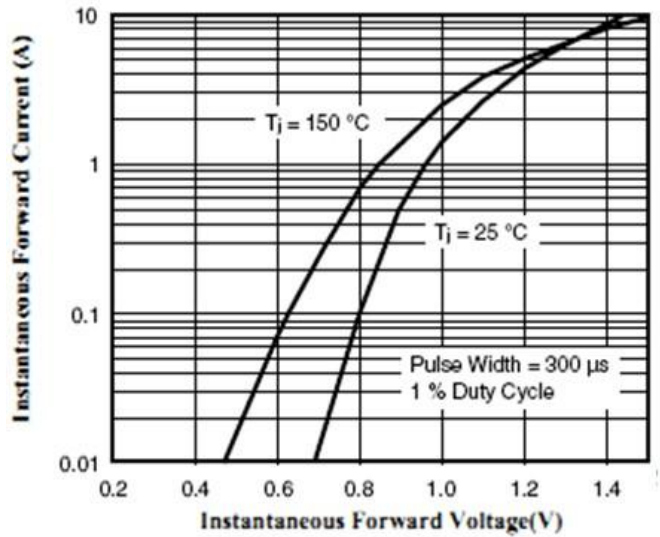


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

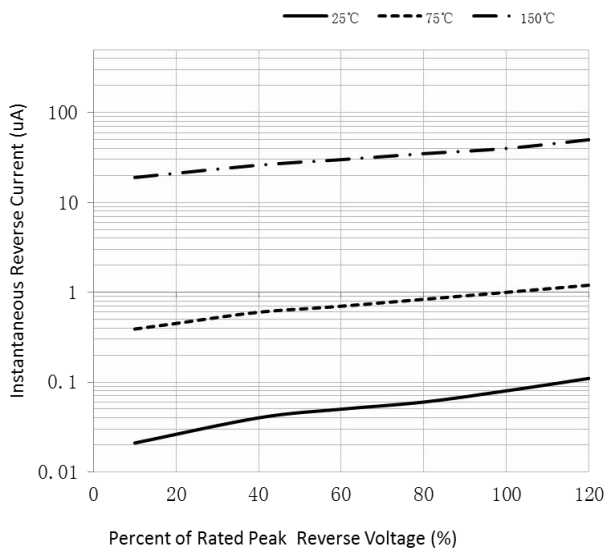
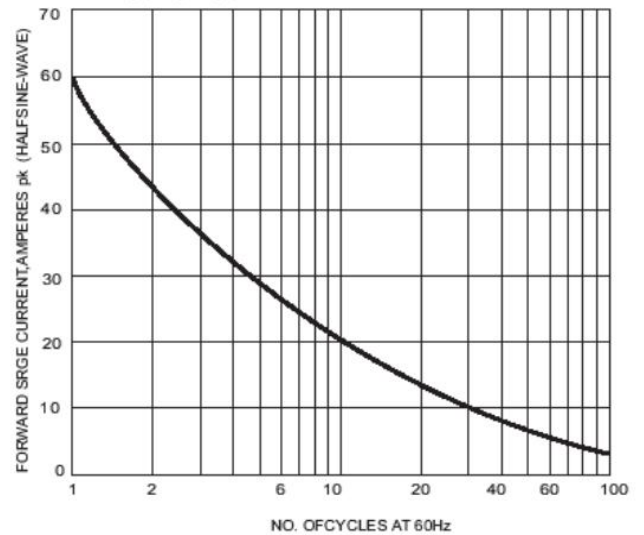


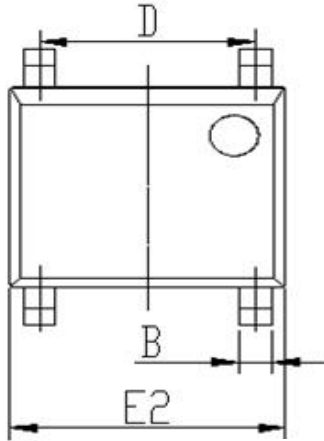
FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SUGER CURRENT



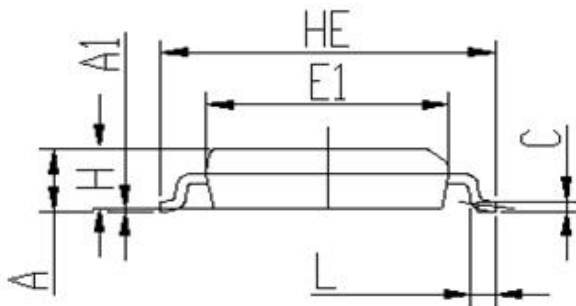
Package Outline Dimensions

in inches (millimeters)

First angle projection



top view



right elevation

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

Revision History

Document Version	Date of release	Discription of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/12/17	Modify document format

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd. or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page.

(<http://www.goodark.com>)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.