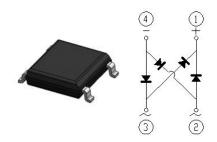


GOOD-ARK Electronics

### Reverse Voltage 100~1000V Output Current 1.0A

### **Features**

- •Glass passivated Fast Recovery bridge rectifiers
- •Ideal for automated placement
- •Moisture sensitivity: level 1, per J-STD-020
- •Solder dip 260 °C, 10s
- •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 Idads, solderable per J-STD-002B and JESD22-B102D
- •Polarity:As markde on body

Maximum Ratings (TA = 25 °C unless otherwise noted)									
Parameter		Symbol	LB1SL	LB2SL	LB4SL	LB6SL	LB8SL	LB10SL	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>	1.0						Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>	30					Α	
Rating for fusing(t<8.3ms)		l <sup>2</sup> t	3.75						A <sup>2</sup> sec
Operating junction and storage temperature range		$T_J, T_{STG}$	- 55 to + 150					°C	
Typical junction capacitance	4.0 V, 1 MHz	CJ	10		pF				



# LB1SL thru LB10SL GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	LB1SL	LB2SL	LB4SL	LB6SL	LB8SL	LB10SL	Unit
Maximum instantaneous forward voltage	IF=1.0A TA=25°C	V <sub>F</sub>	1.0					Volts	
Maximum DC reverse current at rated DC blocking voltage	TA=25°C		10.0						
at fated DC blocking voltage	TA=125°C	I <sub>R</sub>	100						μA
Typical thermal resistance <sup>(1)</sup>		$R_{\theta JA}$	80						
		$R_{\theta JL}$	25					°C /W	

Notes:1. Mounted on FR-4 P.C.BBoard



### **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED

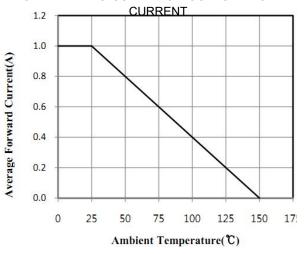


FIG.3-TYPICAL REAK REVERSE VOLTAGE **CHARACTERISTICS** 

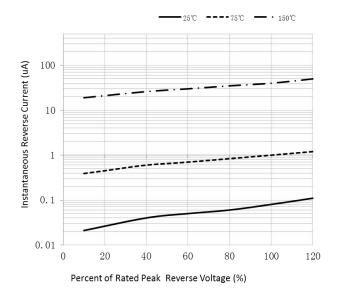
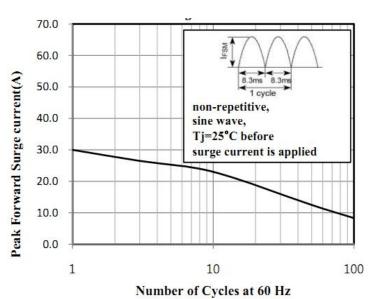


FIG.2-TYPICAL INSTANTANEOUS FORWARD Instantancous Forward Current (A)  $T_{i} = 25$ 0.1 Pulse Width = 300 µs 1 % Duty Cycle 0.01 1.4 0.2 0.6 0.8 1.0 1.2 Instantaneous Forward Voltage(V)

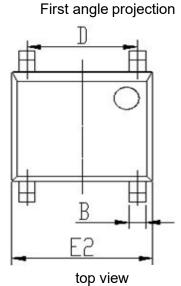
FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

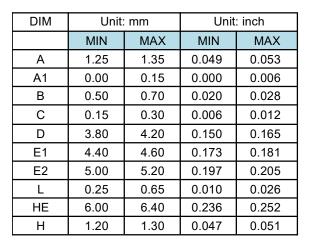


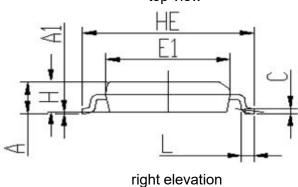


### **Package Outline Dimensions**

in inches (millimeters)







**Revision History** 

Document Version	Date of release	Discroption of changes			
Rev.A	2021/3/21	Released Datasheet			
Rev.B	2023/12/17	Modify document format			



## LB1SL thru LB10SL

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