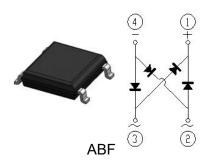


GOOD-ARK Electronics

Reverse Voltage 100~1000V Output Current 1.5A

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 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 Idads, solderable per J-STD-002B and JESD22-B102D
- Polarity: As markde on body

Maximum Ratings (TA = 25 °C unless otherwise noted)									
Parameter		Symbol	LB151SL	LB152SL	LB154SL	LB156SL	LB158SL	LB1510SL	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	100	200	400	600	800	1000	>
Maximum RMS voltage		V _{RMS}	70	140	280	420	560	700	٧
Maximum DC blocking voltage		V _{DC}	100	200	400	600	800	1000	٧
Maximum average output rectified current		I _{o(AV)}	1.5					Α	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	50					Α	
Rating for fusing(t<8.3ms)		l ² t	10.4					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		CJ	25						pF



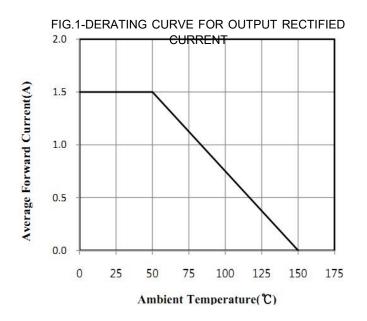
LB151SL thru LB1510SL GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	LB151SL	LB152SL	LB154SL	LB156SL	LB158SL	LB1510SL	Unit
Maximum instantaneous forward voltage	IF=1.5A TA=25°C	V _F	1.1				Volts		
Maximum DC reverse current	TA=25°C		10.0						
at rated DC blocking voltage	TA=125°C	I _R	100						μA
	$R_{\theta JA}$	80							
Typical thermal resistance ⁽¹⁾	R _{eJC}	10					°C /W		
- ypical distinui resistante	R _{θJL}	25							

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

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



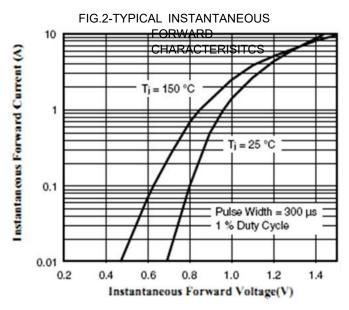


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

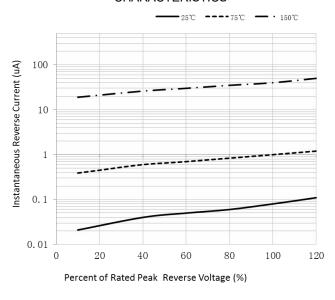
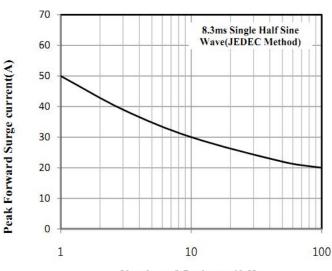


FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARDSUGER CURRENT

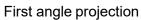


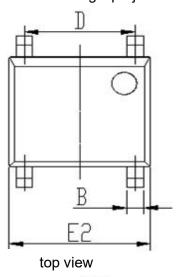
Number of Cycles at 60 Hz



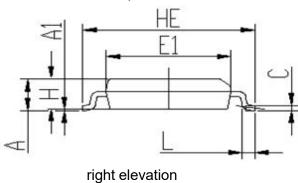
Package Outline Dimensions

in inches (millimeters)





DIM	Unit:	mm	Unit: inch		
	MIN	MAX	MIN	MAX	
Α	1.25	1.35	0.049	0.053	
A1	0.00	0.15	0.000	0.006	
В	0.50	0.70	0.020	0.028	
С	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	
Н	1.20	1.30	0.047	0.051	



Revision History

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



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