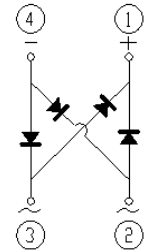


Features

- Case:ABF
- 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



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.

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	LB1S	LB2S	LB4S	LB6S	LB8S	LB10S	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 on Glass-Epoxy P.C.B	I _{o(AV)}	0.8						A
Maximum Average Output Rectified Current on Aluminum Substrate		1.0						
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	35						A
Peak Forward Surge Current 1.0 ms Single Square Wave Superimposed on Rated Load		60						A
Rating for Fusing (t<8.3ms)	I ² t	5						A ² sec
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150						°C
Typical Thermal Resistance ¹	R _{θJA}	80						°C/W
	R _{θJC}	35						
	R _{θJI}	25						

Notes:

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

Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Test Conditions	Symbol	LB1S	LB2S	LB4S	LB6S	LB8S	LB10S	Unit
Maximum Instantaneous Forward Voltage	I _F =0.4A, T _A =25°C	V _F	0.95						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	5.0						μA
	T _A =125°C		200						
Typical Junction Capacitance	4.0V, 1MHz	C _J	13						pF

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

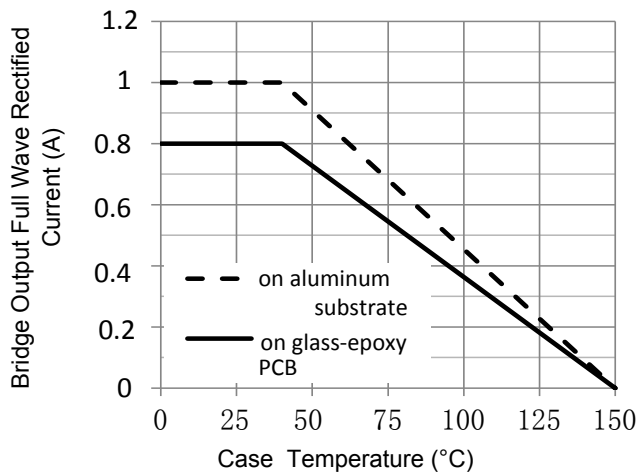


Figure 1. Output Rectifier Current Derating Curve

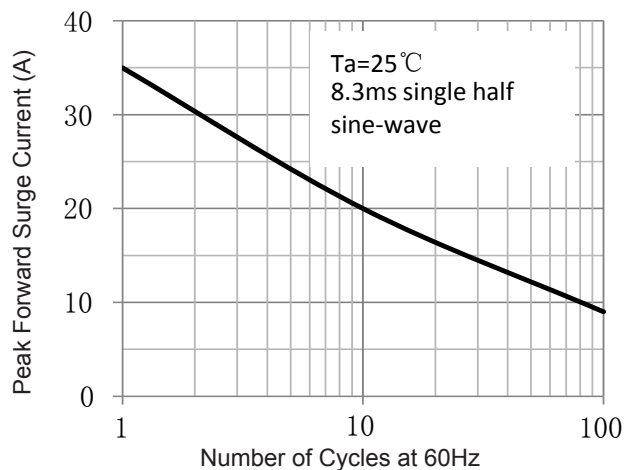


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

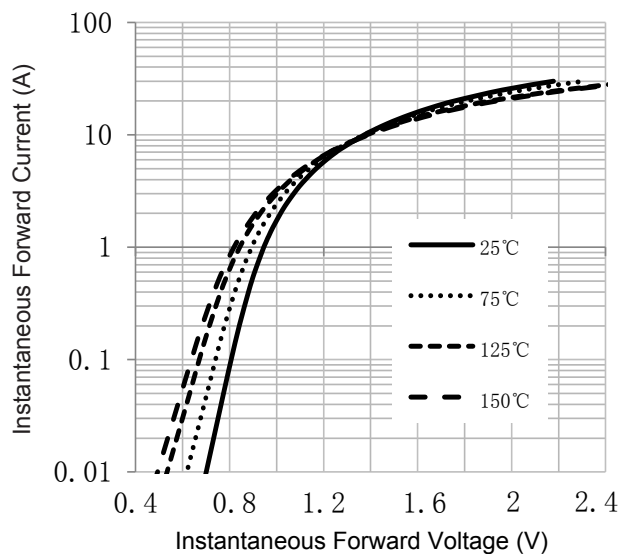


Figure 3. Typical Forward Characteristics

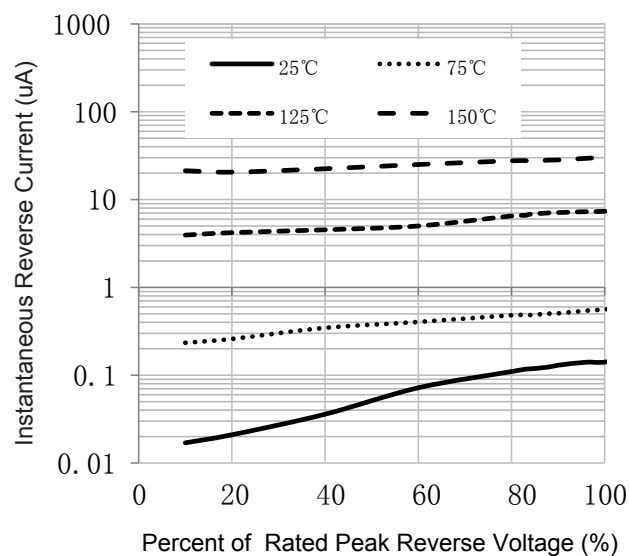
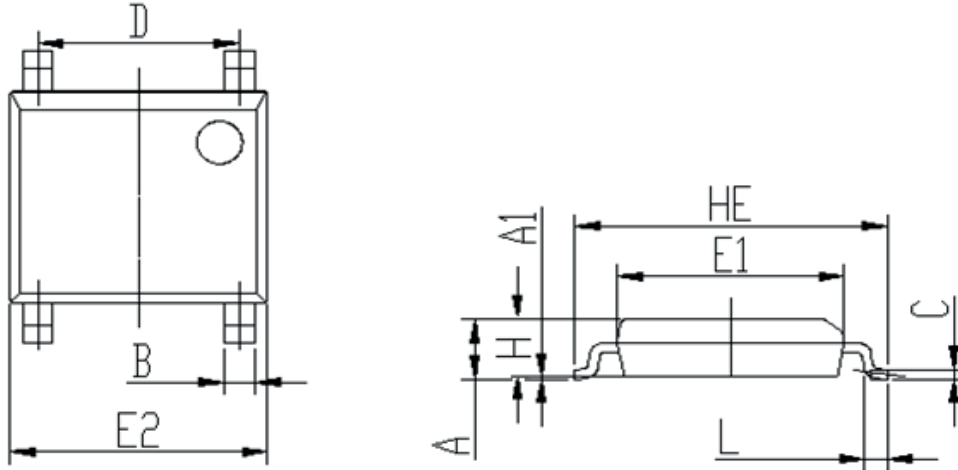


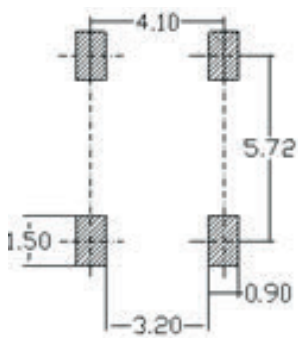
Figure 4. Typical Reverse Characteristics

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

Recommended Pad Layout



Unit: mm