



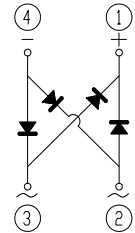
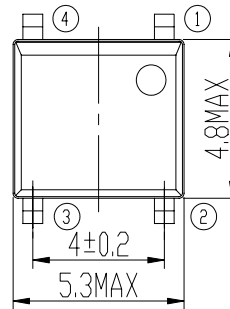
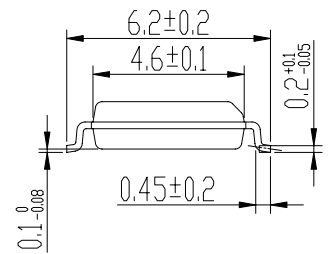
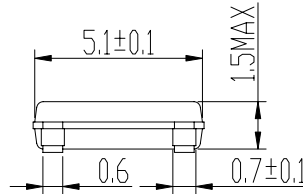
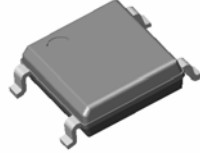
Low Profile Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier

LB2S thru LB10S

Reverse Voltage 200 and 1000V Forward Current 1.0A

Features

- ◆ Low Profile: Typical height of 1.4mm
- ◆ Ideal for automated placement
- ◆ High surge current capability
- ◆ Solder Dip 260°C, 40seconds



Mechanical Data

- ◆ Case: SOPA-4
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

Maximum Ratings & Electrical Characteristics

Ratings at 25°C

ambient temperature unless otherwise specified.

Parameter	Symbol	LB2S	LB4S	LB6S	LB8S	LB10S	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	800	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average forward output rectified current on glass-epoxy P.C.B on aluminum substrate	$I_{F(AV)}$	1.0 0.8					A
Peak forward surge current 8.3 ms single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Rating for fusing ($t < 8.3ms$)	I^2t	3					A ² sec
Maximum instantaneous forward voltage drop per diode at 0.4A	V_F	0.95					V
Maximum DC reverse current at $T_A = 25^\circ C$ rated DC blocking voltage per leg $T_A = 125^\circ C$	I_R	5 500					μA
Typical thermal resistance per leg (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	80 25					$^\circ C/W$
Operating junction temperature range	T_J	-55 to +150					$^\circ C$
Storage temperature range	T_{STG}	-55 to +150					$^\circ C$

- Notes:** 1. Device mounted P.C.B with 0.47x0.47"(12mmx12mm) Copper Pads.
2. JEDEC registered values

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RATINGS AND CHARACTERISTIC CURVES

(TA=25°C unless ontherwise noted)

