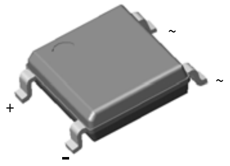
LB2SA thru LB10SA

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

Reverse Voltage 200 and 1000V   Forward Current 0.8A

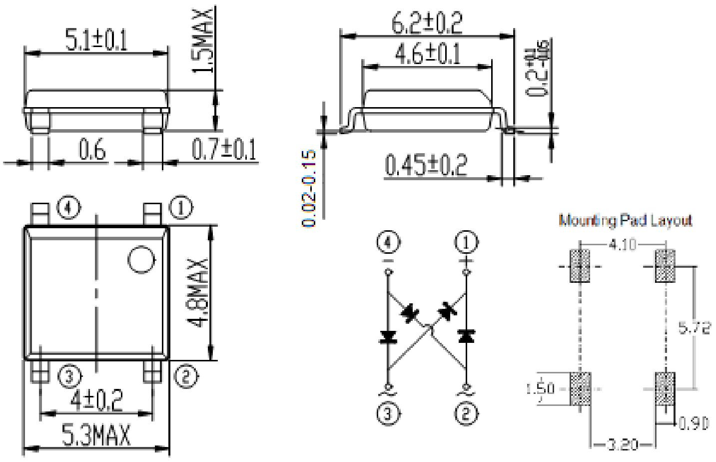
Features

- ◆ Low Profile: Typical height of 1.4mm
- ◆ Ideal for automated placement
- ◆ High surge current capability
- ◆ Solder Dip 260°C，10seconds



Mechanical Data

- ◆ Case:SOPA-4
  Epoxy meets UL-94V-0 Flammability rating
- ◆ Terminals:Matte tin plated ldads, solderable per
  J-STD-002B and JESD22-B102D
- ◆ Polarity:As markde on body



Maximum Ratings & Electrical Characteristics Ratings at 25°C

ambient temperature unless otherwise specified.

Parameter	Symbol	LB2SA	LB4SA	LB6SA	LB8SA	LB10SA	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average forward output rectified current on glass-eposy P.C.B on aluminum substrate	$I_{F(AV)}$	0.8 1.0					A
Peak forward surge current 8.3 ms single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	25					A
Rating for fusig (t<8.3ms)	I^2t	2.6					A^2sec
Maximum instantaneous forward voltage drop per diode at 0.4A	VF	0.95					V
Maximum DC reverse current at TA=25°C rated DC blocking voltage per leg TA=125°C	IR	5 500					μA
Typical thermal resistance per leg (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	80 25					°C/W
Operating junction temperature range	TJ	-55 to +150					°C
Storage temperature range	T_{STG}	-55 to +150					°C

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

RATINGS AND CHARACTERISTIC CURVES

(TA=25℃ unless ontherwise noted)