

VOLTAGE RANGE: 200 - 1000V

CURRENT: 1.0 A

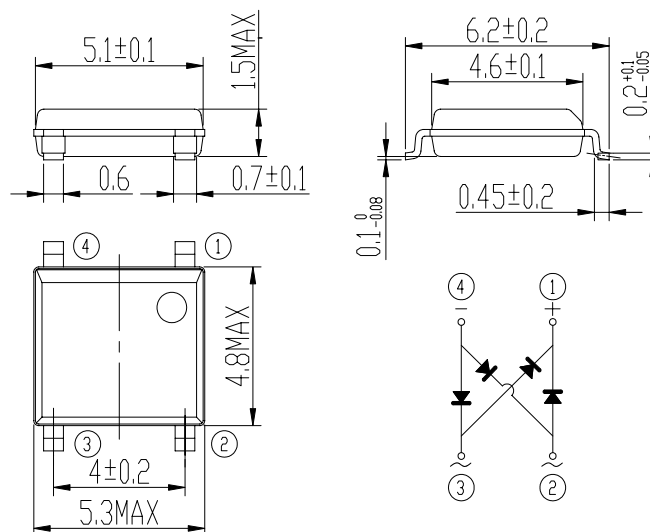
Features

- Low Profile: Typical height of 1.4mm
- Ideal for automated placement
- High surge current capability

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

SOPA-4



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	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 fusig (t<8.3ms)	I ² _t	3					A ² sec
Maximum instantaneous forward voltage drop per diode at 0.4A	V _F	0.95					V
Maximum DC reverse current atTA=25 rated DC blocking voltage per legTA=125	I _R	5 500					μA
Typical thermal resistance per leg (Note 1)	R _{θJA}	80					/W
	R _{θJL}	25					
Operating junction temperature range	T _J	-55 to +150					
Storage temperature range	T _{STG}	-55 to +150					

Notes 1. Device mounted P.C.B with 0.47x0.47"(12mmx12mm) Copper Pads.

2. JEDEC registered values

(TA=25 unless ontherwise noted)

