

LB2S-LB10S

Silicon Bridge Rectifiers

Reverse Voltage: 200 - 1000V

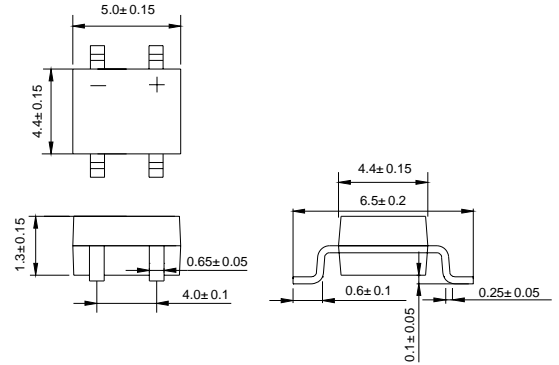
Forward Current: 0.8,1.0A



LBS

Features

- ◇ This series is UL recognized under Component Index, file number E239431
- ◇ Glass passivated chip junction
- ◇ Plastic material has U/L flammability classification 94v-O
- ◇ High surge overload rating: 30A peak
- ◇ Save space on printed circuit boards
- ◇ High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs. (2.3 kg) tension



Dimensions in millimeters

Mechanical Data

- ◇ **Case:** Molded plastic body over passivated junctions
- ◇ **Terminals:** Plated leads solderable per MIL-STD-750, Method 2026
- ◇ **Polarity:** Polarity symbols marked on body
Dimensions in inches and (millimeters)
- ◇ **Mounting Position:** Any
- ◇ **Weight:**

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter	Symbol	LB2S	LB4S	LB6S	LB8S	LB10S	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RWS}	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum average forward output current $T_L=100^\circ\text{C}$	$I_{F(AV)}$	0.8 ¹⁾ 1.0 ²⁾					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30					A
Maximum instantaneous forward voltage at 0.4A	V_F	0.95					V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage	I_R	10					μA
Typical thermal resistance junction to lead On aluminum substrate	$R_{\theta JL}$	25					°C/W
On glass-epoxy substrate	$R_{\theta JA}$	62.5 80					
Operating junction temperature range	T_J	-55---+150					°C
Storage temperature range	T_{STG}	-55---+150					°C

NOTES: 1). On glass epoxy P.C.B.

2). On aluminum substrate

Ratings AND Characteristic Curves

FIG.1 TYPICAL FORWARD CHARACTERISTICS

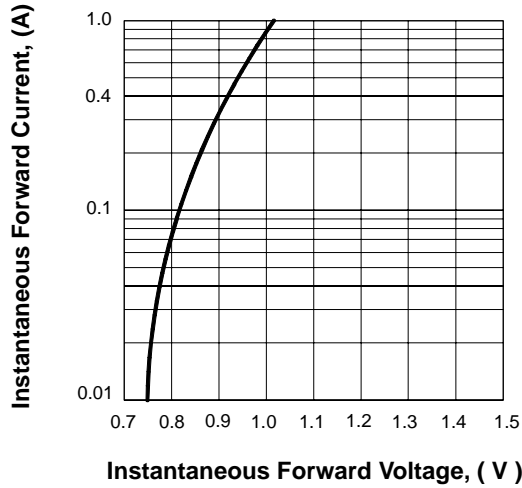


FIG.2 FORWARD DERATING CURVE

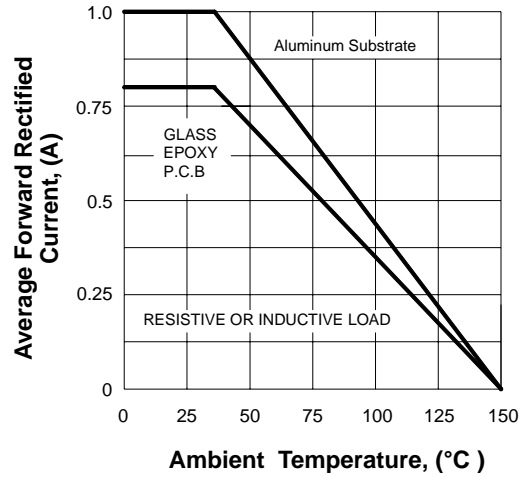


FIG.3 TYPICAL REVERSE CHARACTERISTICS

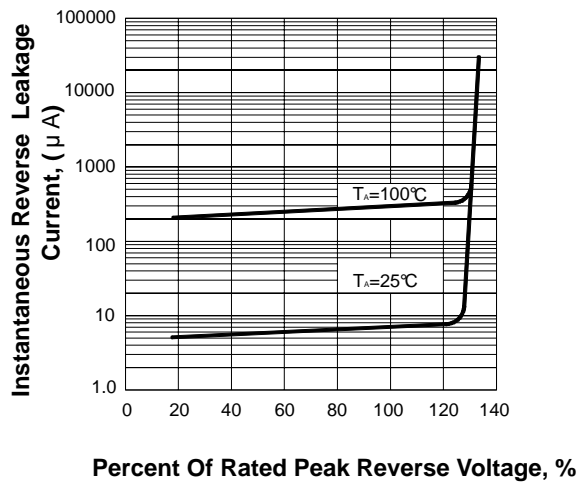


FIG.4 PEAK FORWARD SURGE CURRENT

