### Zibo Seno Electronic Engineering Co., Ltd.



# **LLB05S – LLB10S**

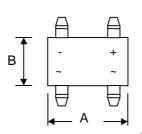


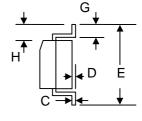


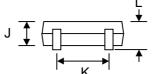
#### 0.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material UL Flammability 94V-O







### Mechanical Data

Case: LBS, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: As Marked on Case

Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version

#### LBS Dim Min Max Α 4.90 5.10 В 4.30 4.60 С 0.15 0.25 D 0.15 Ε 6.00 6.40 0.70 G 0.30 Н 0.90 1.10 J 1.50 K 3.90 4.10 1.42 1.22 All Dimensions in mm

#### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	LLB05S	LLB1S	LLB2S	LLB4S	LLB6S	LLB8S	LLB10S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 40^{\circ}C$ Average Rectified Output Current (Note 2) $@T_A = 40^{\circ}C$	lo	0.5 0.8							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							Α
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	5.0					A <sup>2</sup> s		
Forward Voltage per element @I <sub>F</sub> = 0.5A	VFM	1.0						V	
	IRM	5.0 150							μΑ
Typical Junction Capacitance per leg (Note 3)	Cj	13						pF	
Typical Thermal Resistance per leg (Note 1)	RθJA RθJL	62.5 20						°C/W	
Operating and Storage Temperature Range	Тj, Тsтg	-55 to +150							°C

Note: 1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

- 2. Mounted on aluminum substrate PC board with 1.3mm<sup>2</sup> solder pad.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

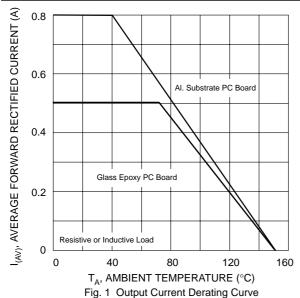
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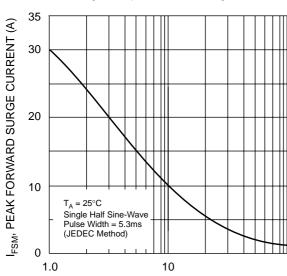


# LLB1S - LLB10S (%)

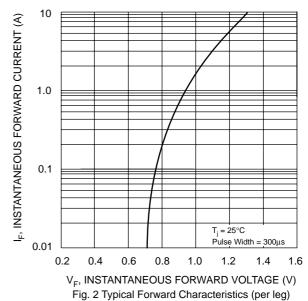








NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Peak Forward Surge Current (per leg)



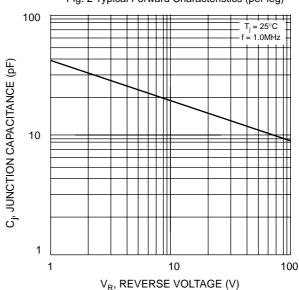


Fig. 4 Typical Junction Capacitance

