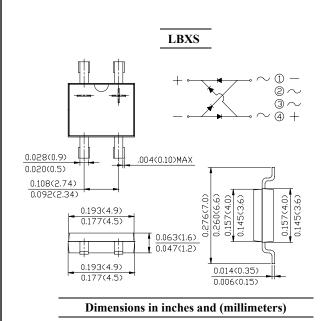


# LB05S THRU LB10S

### MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER



# REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 0.5 AMPERE

#### **FEATURES**

- · Surge overload rating: 30 amperes peak
- · Ideal for printed circuit board
- Plastic material has Underwriters Laboratory
  Flammability Classification 94V-0
- · Low leakage
- · Reliable low cost construction utilizing molded

#### **MECHANICAL DATA**

Case: Molded plastic, LBXS

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any

Weight: 0.00528ounce, 0.134gram

## Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

		LB05S	LB1S	LB2S	LB4S	LB6S	LB8S	LB10S	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current			•	•	•			•	
(see Fig. 1) on glass-epoxy P.C.B (Note 2)	I <sub>(AV)</sub> 0.5 0.8							Amp	
on aluminum substrate (Note 3)									
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I <sub>FSM</sub> 30						Amp		
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V	1.0							Volts
at 0.4A DC and 25 ℃	$V_{\mathrm{F}}$								
Maximum Reverse Current at T <sub>A</sub> =25℃	T	5.0 500							uAmp
at Rated DC Blocking Voltage T <sub>A</sub> =125°C	$I_R$								
Typical Junction Capacitance (Note 1)	$C_{J}$				13				pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$				60				°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$				16				°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , Tstg				-55 to +150	O			°C

#### NOTES

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads
- 3- On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

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# Characteristic Curves (TA=25 C unless otherwise noted)

