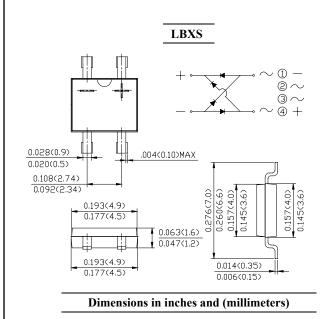


LB05S THRU LB10S

MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER



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

FEATURES

- \cdot 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: 0.005280unce, 0.134gram

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, 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 _{DC}	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 _(AV) 0.5							Amp	
on aluminum substrate (Note 3)	0.8								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 30						Amp		
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	V	1.0							Volts
at 0.4A DC and 25 °C	V _F								
Maximum Reverse Current at T _A =25°C	т	5.0 500							uAmp
at Rated DC Blocking Voltage T _A =125°C	I _R								
Typical Junction Capacitance (Note 1)	CJ				13				pF
Typical Thermal Resistance (Note 3)	R _{0JA}				60				°C/W
Typical Thermal Resistance (Note 2)	R _{0JL}				16				°C/W
Operating and Storage Temperature Range	T _J , Tstg			-	-55 to +150)			°C

NOTES:

1- Measured at 1 $\ensuremath{\text{MH}}_{Z}$ and applied reverse voltage of 4.0 VDC.

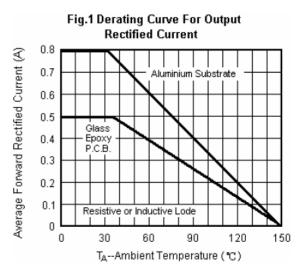
2- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads

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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MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

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





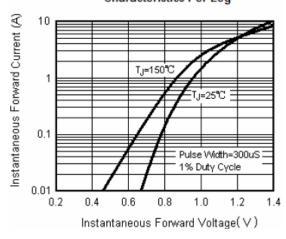


Fig.5 Typical Junction Capacitance Per Leg

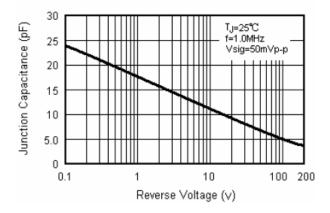


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Leg

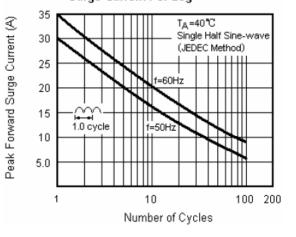
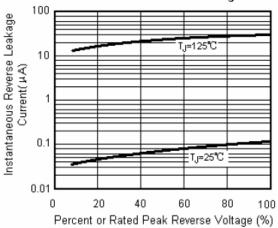


Fig.4 Typical Reverse Leakage Characteristics Per Leg



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