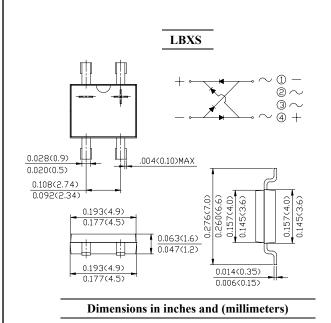


LB05S THRU LB10S

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_{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 0.8								Amp
on aluminum substrate (Note 3)									
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 ℃	V_{F}								
Maximum Reverse Current at T _A =25℃	T	5.0 500							uAmp
at Rated DC Blocking Voltage T _A =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 _J , Tstg	-55 to +150							r

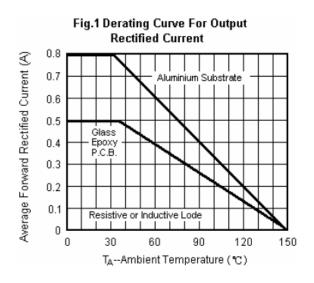
NOTES

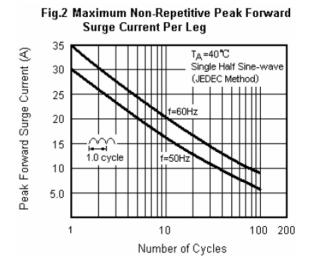
- 1- Measured at 1 $\mbox{MH}_{\mbox{\scriptsize Z}}$ and applied reverse voltage of 4.0 VDC.
- 2- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads
- 3- On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20×20 mm) mounted on 0.05×0.05 " (1.3×1.3 mm) solder pad

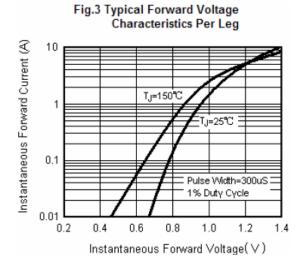


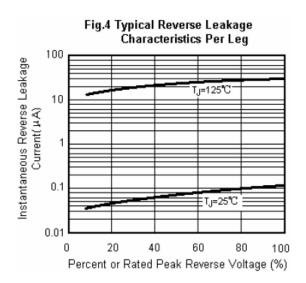
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Characteristic Curves (TA=25 °C unless otherwise noted)









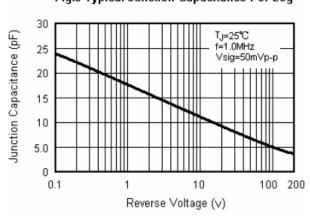


Fig.5 Typical Junction Capacitance Per Leg

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

