

# LB005 THRU LB10

**SINGLE PHASE GLASS PASSIVATED  
SURFACE MOUNT FLAT BRIDGE RECTIFIER**  
VOLTAGE: 50 TO 1000V      CURRENT: 0.6A

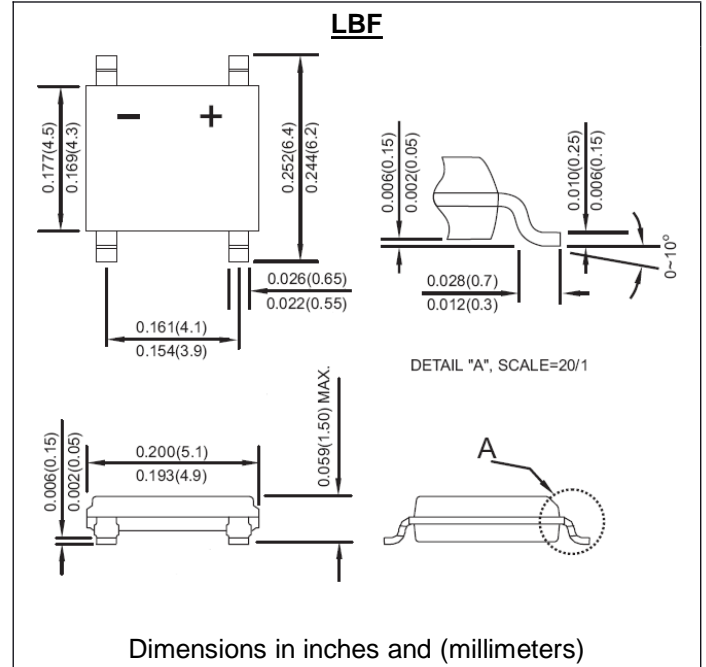


## FEATURE

Ideal for printed circuit board  
Glass passivated chip  
Reliable low cost construction utilizing molded plastic technique  
High surge current capability  
Small size, simple installation  
High temperature soldering guaranteed:  
260°C/10 seconds/0.375" lead length at 5 lbs tension

## MECHANICAL DATA

Terminal: Plated leads solderable per MIL-STD 202E, method 208C  
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy  
Polarity: Polarity symbol marked on body



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	Symbol	LB 005	LB 01	LB 02	LB 04	LB 06	LB 08	LB 10	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta =40°C	I <sub>f(av)</sub>	0.6							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	20.0							A
Maximum Instantaneous Forward Voltage at forward current 0.3A	V <sub>f</sub>	0.95							V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =125°C	I <sub>r</sub>	5.0 100.0							μA
Typical Thermal resistance junction to lead on aluminum substrate on glass-epoxy P.C.B.	R <sub>th(jl)</sub> R <sub>th(ja)</sub>	25 62.5 80							°C/W
Storage and Operating Junction Temperature Range	T <sub>stg, Tj</sub>	-55 to +150							°C

Note:

## RATINGS AND CHARACTERISTIC CURVES LB005 THRU LB10

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

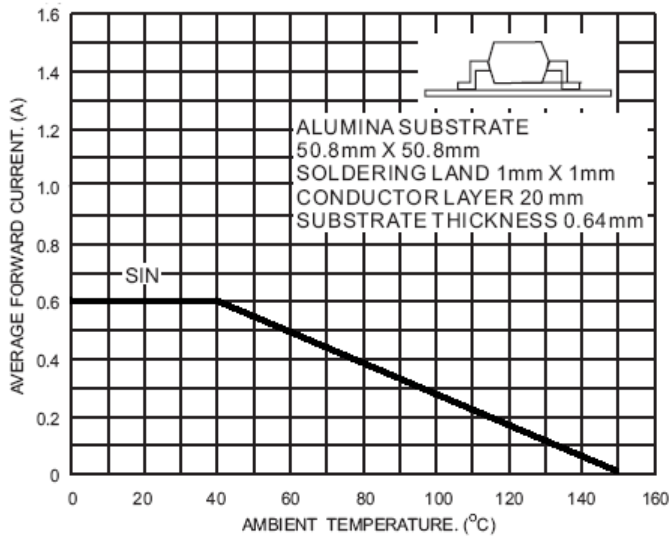


FIG.2- TYPICAL FORWARD CHARACTERISTICS

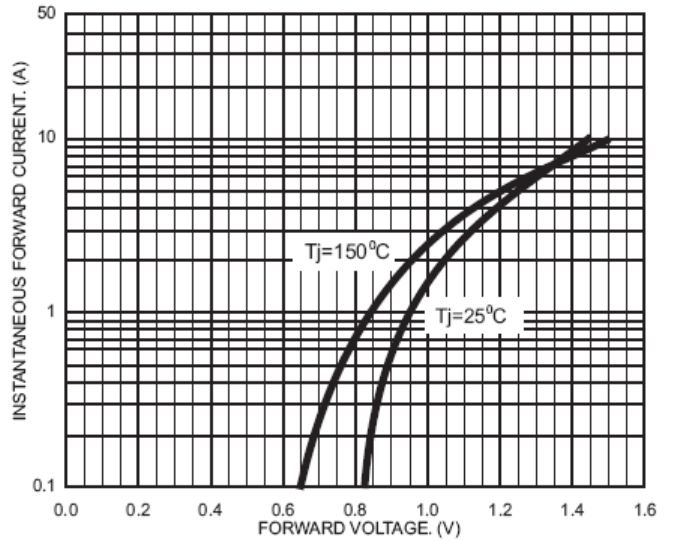


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

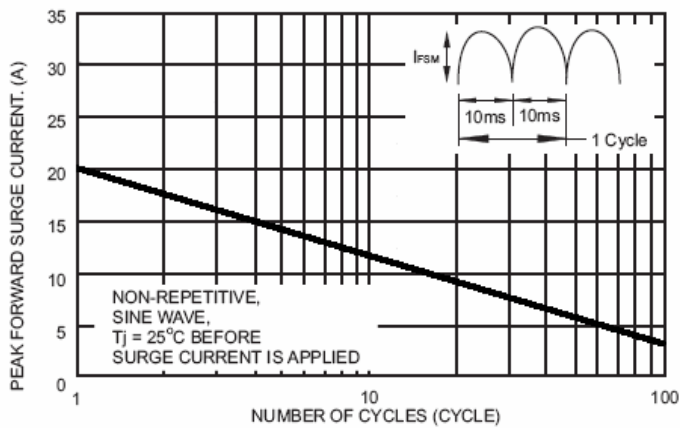


FIG.4- FORWARD POWER DISSIPATION

