

LB005 THRU LB10

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

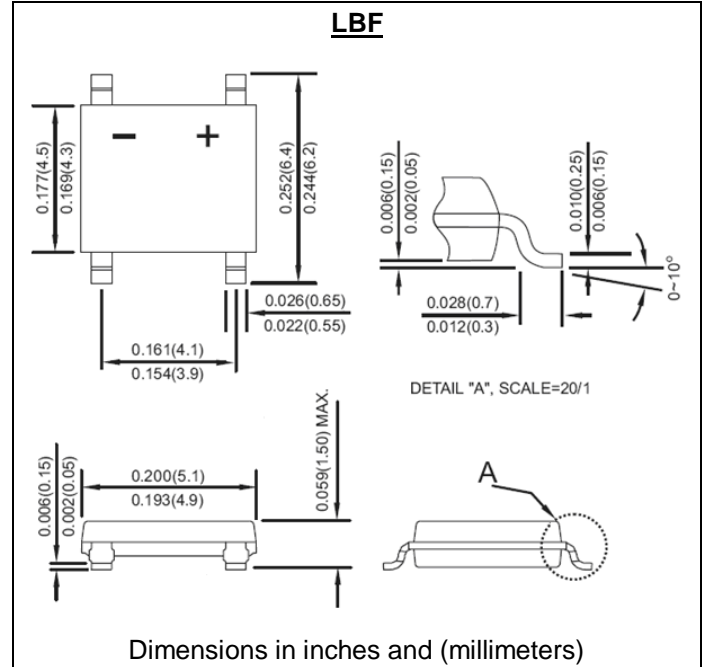


FEATURE

- 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

MECHANICAL DATA

- Terminal: Plated leads solderable per J-STD-002
- 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)

	Symbol	LB005	LB01	LB02	LB04	LB06	LB08	LB10	Units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta =40°C	I _{f(av)}	0.6							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	20.0							A
Maximum Instantaneous Forward Voltage at forward current 0.3A	V _f	0.95							V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C	I _r	5.0							μA
Ta =125°C		100.0							
Rating for fusing(t < 8.3ms)	I ² t	2							A ² sec
Typical Thermal resistance junction to lead on aluminum substrate on glass-epoxy P.C.B.	R _{th(jl)}	25							°C/W
	R _{th(ja)}	62.5							
		80							
Storage and Operating Junction Temperature Range	T _{stg} , T _j	-55 to +150							°C
Note:									

RATINGS AND CHARACTERISTIC CURVES LB005 THRU LB10

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

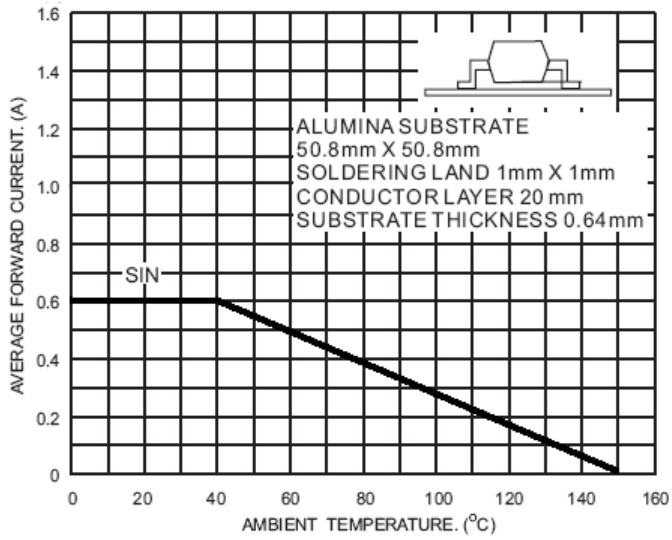


FIG.2- TYPICAL FORWARD CHARACTERISTICS



FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

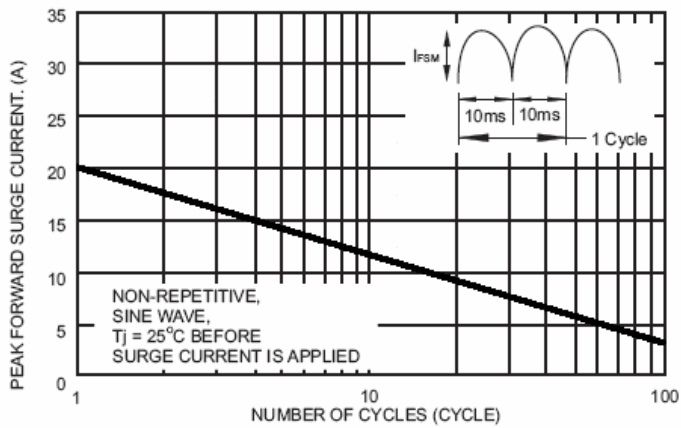


FIG.4- FORWARD POWER DISSIPATION

