

LLB005-E THRU LLB10-E

**SINGLE PHASE GLASS PASSIVATED
SURFACE MOUNT FLAT BRIDGE RECTIFIER**
VOLTAGE: 50 to 1000V CURRENT: 1.0A

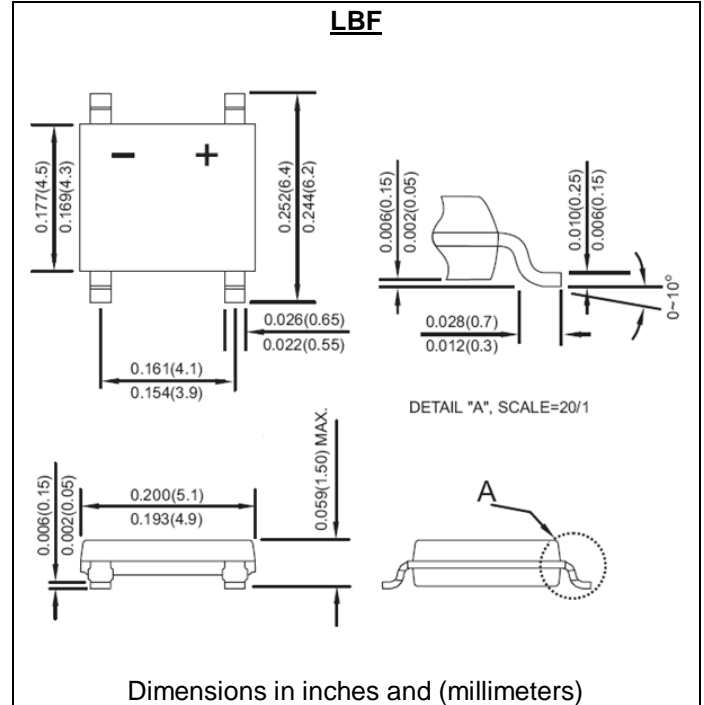


FEATURE

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
Halogen Free

MECHANICAL DATA

Terminal: Solder plated, solderable per J-STD-002
Case: UL-94 Class V-0 recognized Halogen Free 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	LLB 005-E	LLB 01-E	LLB 02-E	LLB 04-E	LLB 06-E	LLB 08-E	LLB 10-E	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 on aluminum substrate on glass-epoxy P.C.B.	I _{f(av)}					1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}					30.0			A
Maximum Instantaneous Forward Voltage at forward current 0.4A	V _f					0.95			V
Maximum DC Reverse Current at rated DC blocking voltage	I _r					5.0			μA
Typical Thermal resistance	junction to lead					25			°C/W
	Junction to case					20			
	on aluminum substrate					62.5			
	on glass-epoxy P.C.B.					80			
Storage and Operating Junction Temperature Range	T _{stg} , T _j					-55 to +150			°C

Note:

RATINGS AND CHARACTERISTIC CURVES LLB005-E THRU LLB10-E

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

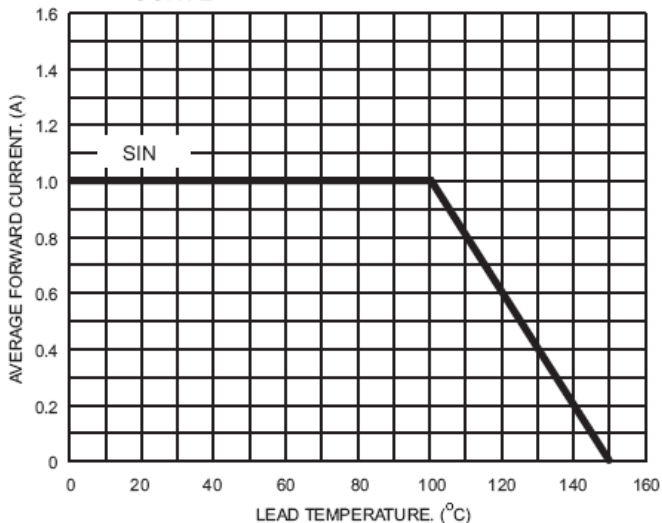


FIG.2- TYPICAL FORWARD CHARACTERISTICS

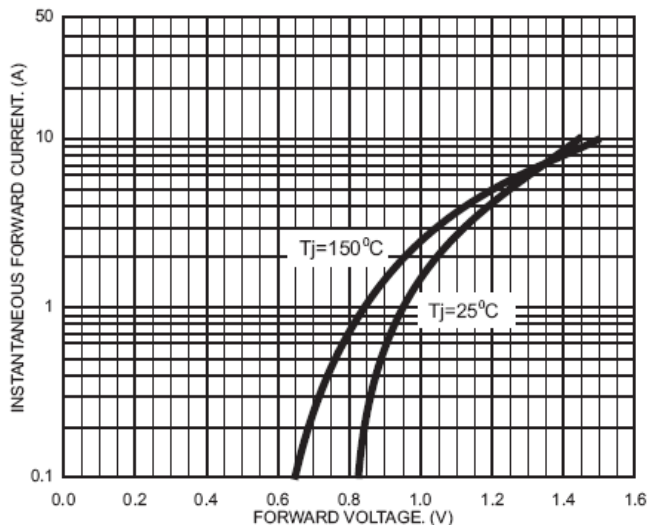


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

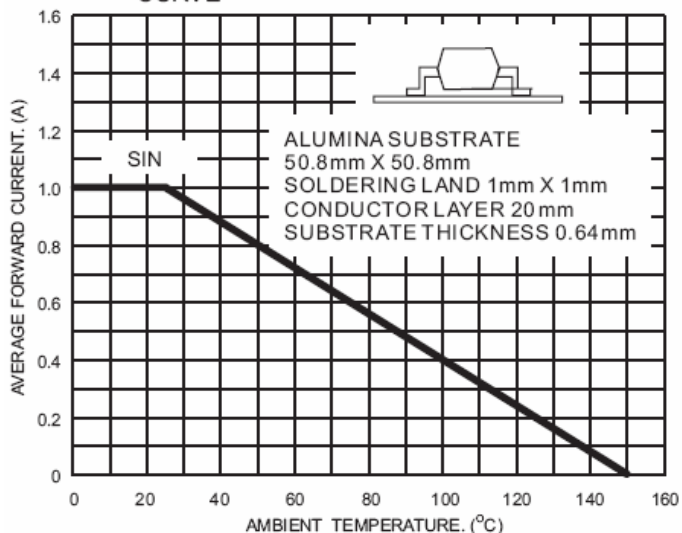


FIG.4- FORWARD POWER DISSIPATION

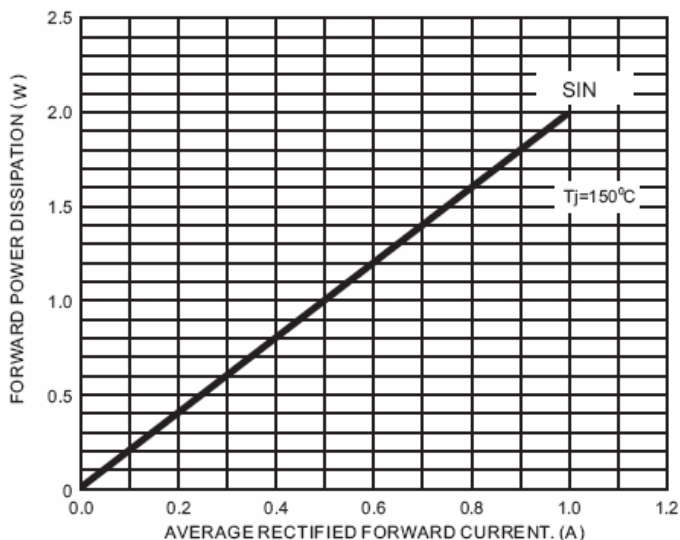


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

