LLB005-47L THRU LLB10-47L

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT FLAT BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V **CURRENT: 1.0A**

VOLTARISTECH INC.
POWER · PRECISION · INNOVATION

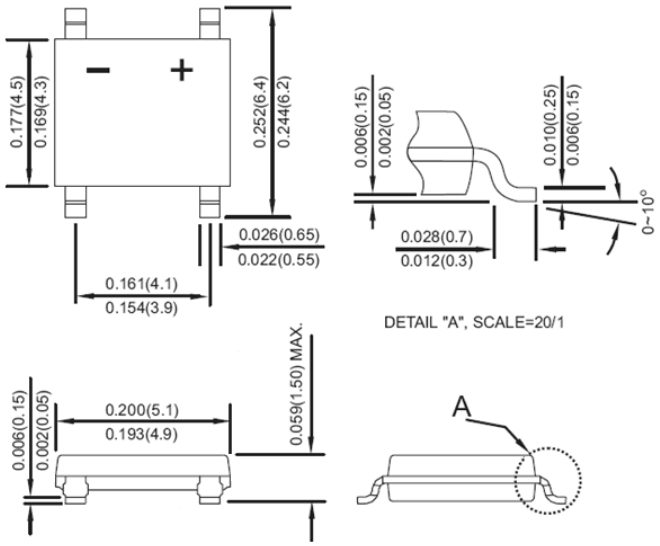
FEATURE

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℃/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

LBF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	LLB005-47L	LLB01-47L	LLB02-47L	LLB04-47L	LLB06-47L	LLB08-47L	LLB10-47L	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current — on aluminum substrate on glass-epoxy P.C.B.	If(av)	1.0 0.8							A
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	Ifsm	30							A
Peak Forward Surge Current (1ms 1 cycle)	Ifsm	60							A
Maximum Instantaneous Forward Voltage at forward current 0.4A	Vf	0.95							V
Rating for fusing(t＜8.3ms)	I^2t	3.9							A^2sec
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	5.0 100.0							μA
Non Repetitive Reverse Avalanche Energy at $I_{BR(R)}$ = 0.5A	Er	5							mJ
Typical Thermal resistance — junction to lead on aluminum substrate on glass-epoxy P.C.B.	Rth(jl) Rth(ja)	25 62.5 80							℃/W
Storage and Operating Junction Temperature Range	Tstg, Tj	-55 to +150							℃

Note:

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

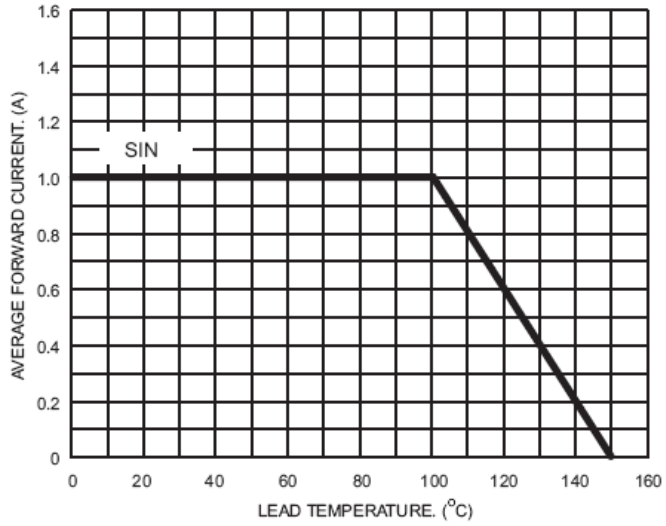


FIG.2- TYPICAL FORWARD CHARACTERISTICS

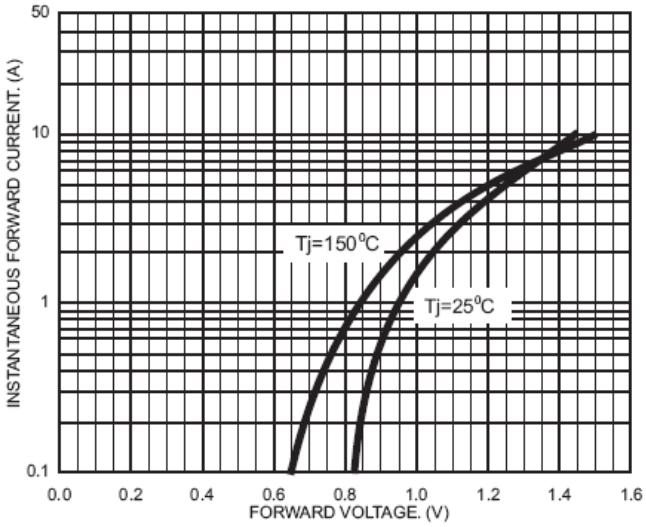


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

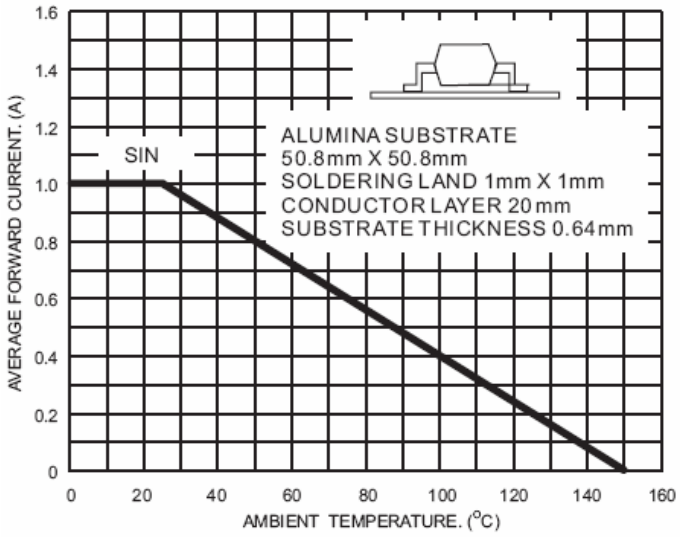


FIG.4- FORWARD POWER DISSIPATION

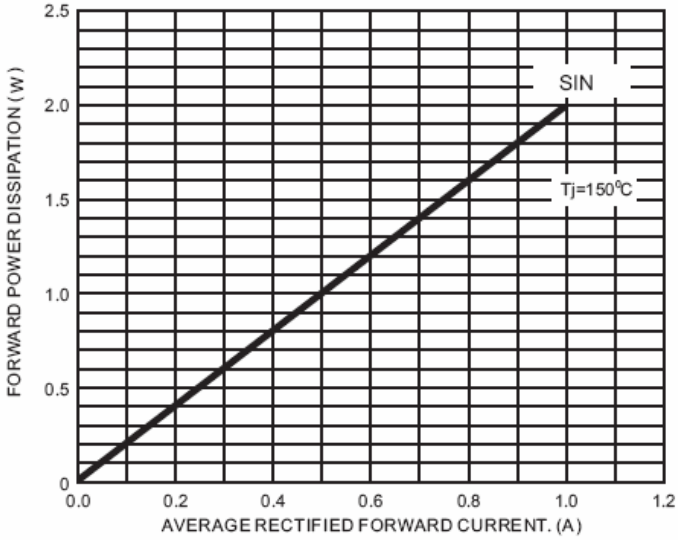


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

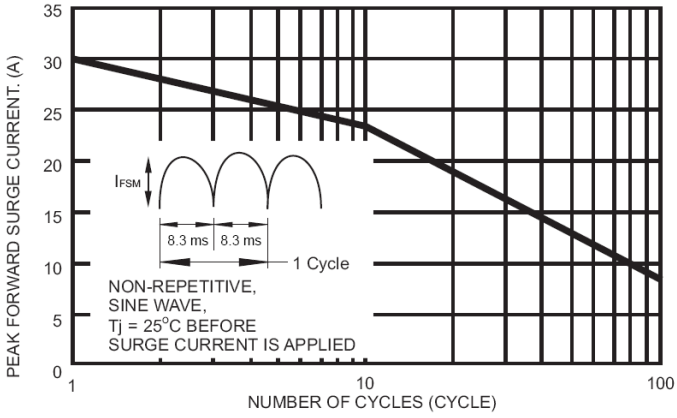
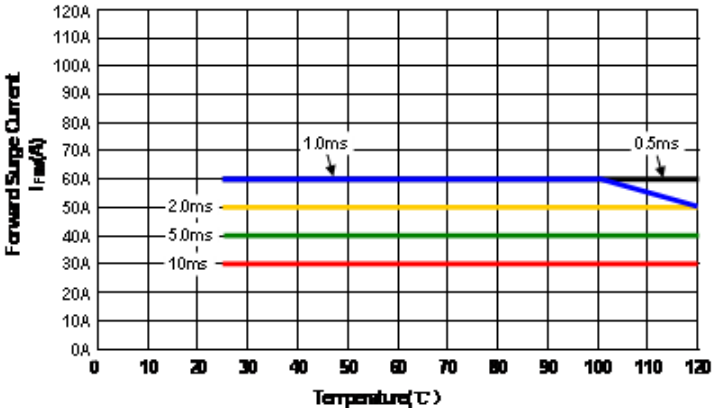
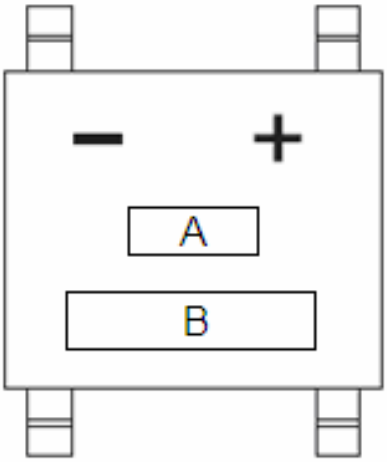


Fig.6 — Maximum Non-Repetitive Peak Forward Surge Current (0.5ms ~ 10ms)



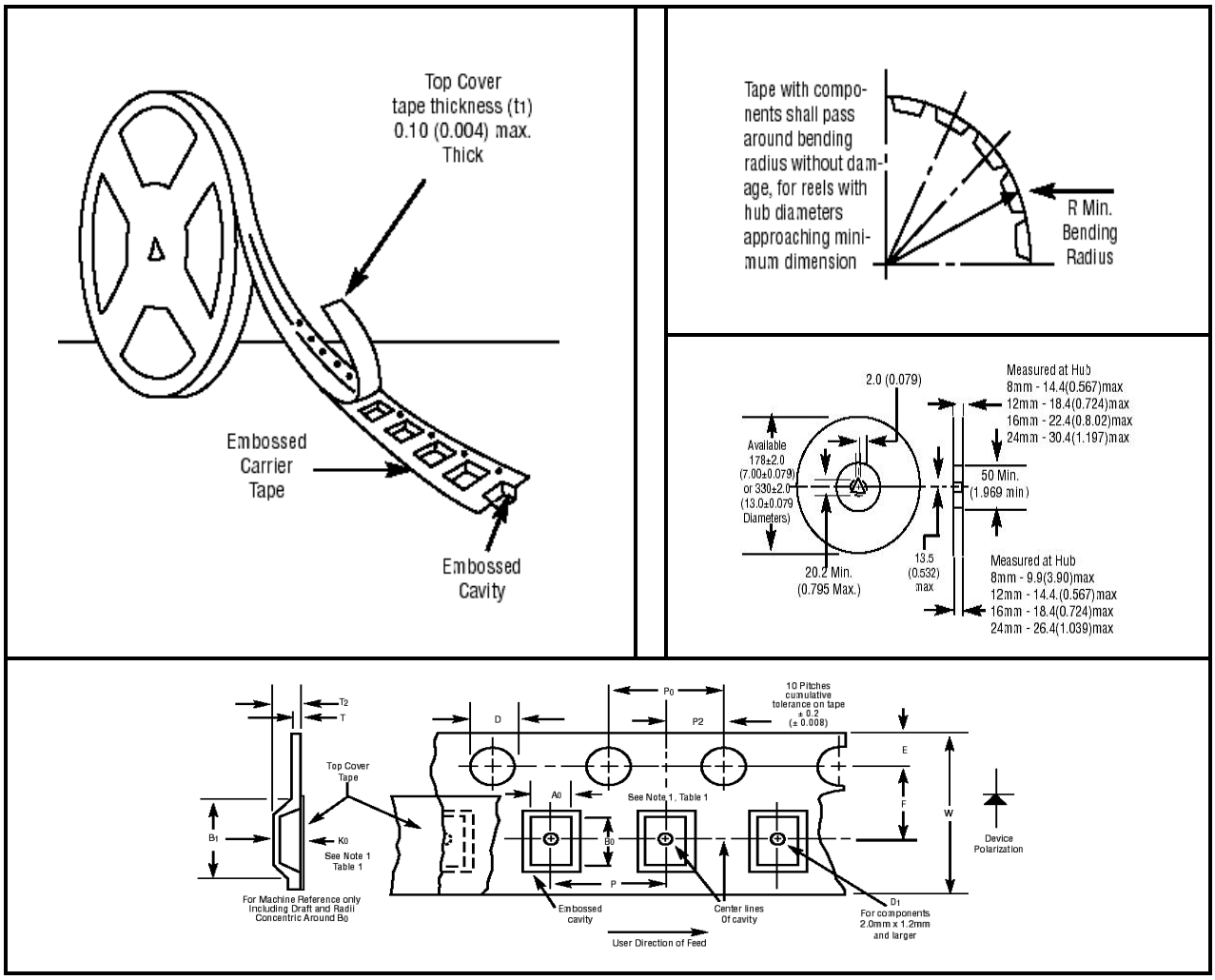


A：LOGO

E

B：TYPE NAME

LLB08



	LBF (mm)
A_0 (TYP)	6.0
B_0 (TYP)	8.3
K_0 (TYP)	1.6
W	12±0.3
P_0	4±0.1
P_2	2±0.5
D	1.55±0.01
E	1.75±0.1
F	5.5±0.05
T (TYP)	0.6

TYPE AND REEL PACKAGING:

Component Case Type	Units Per Reel(pcs)	Component Spacing (mm)	Tape Spacing (mm)	Approx Gross Weight Per Reel Material(kg)	Approx Gross Weight Per Reel packed (kg)	Approx Gross Weight Per Box packed (kg)
LLB08-E	**5000×2**	**4**	**12**	**0.272**	**0.922**	**2.004**

Carton Size (cm)	Carton No.	Qty Per Carton (pcs)	Net Weight (kg)	Approx Gross Weight (kg)
35.5×35.5×34.5	**05N**	**80K**	**15.8**	**16.8**