

RLB005 THRU RLB10

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

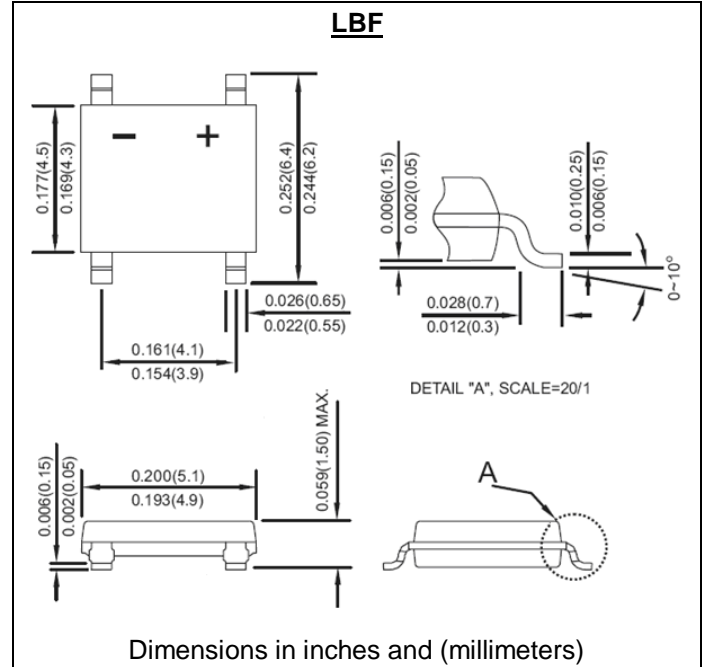


FEATURE

- Ideal for printed circuit board
- Glass passivated chip
- Fast recovery time for high efficiency
- 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	RLB0 05	RLB0 1	RLB0 2	RLB0 4	RLB0 6	RLB0 8	RLB1 0	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	1.3							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	5.0 100.0							μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	150					200		nS
Typical Thermal resistance junction to lead on aluminum substrate on glass-epoxy P.C.B.	R _{th(jl)} R _{th(ja)}	25 62.5 80							°C/W
Storage and Operating Junction Temperature Range	T _{stg} , T _j	-55 to +150							°C

Note:

- Reverse Recovery Condition I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A

RATINGS AND CHARACTERISTIC CURVES RLB005 THRU RLB10

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

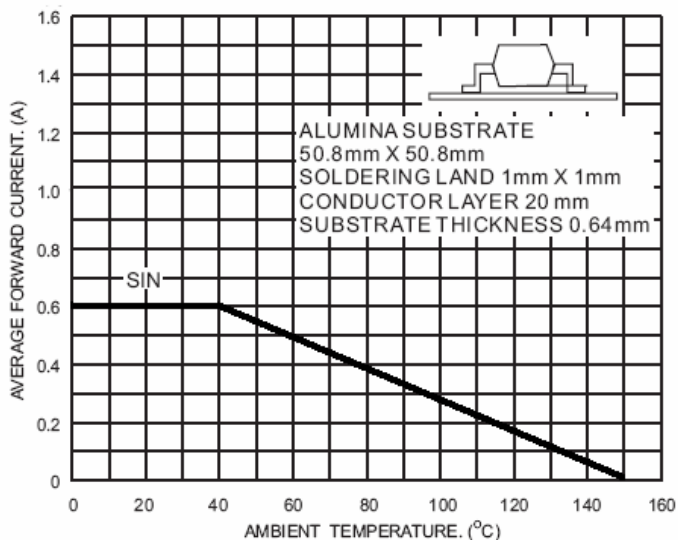


FIG.2- TYPICAL FORWARD CHARACTERISTICS

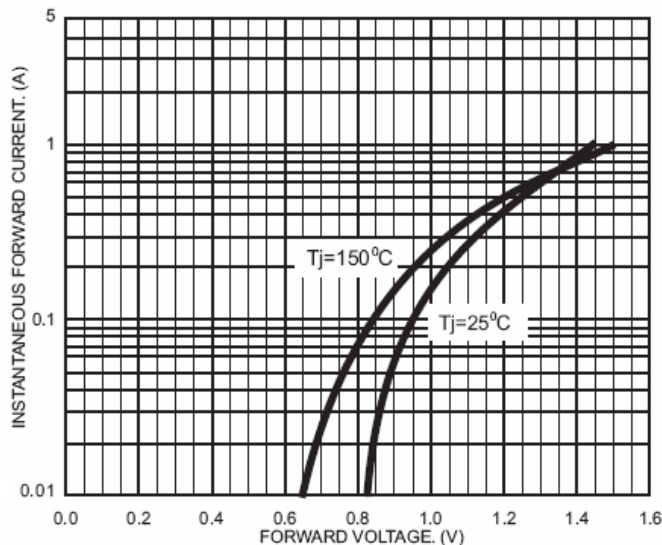


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

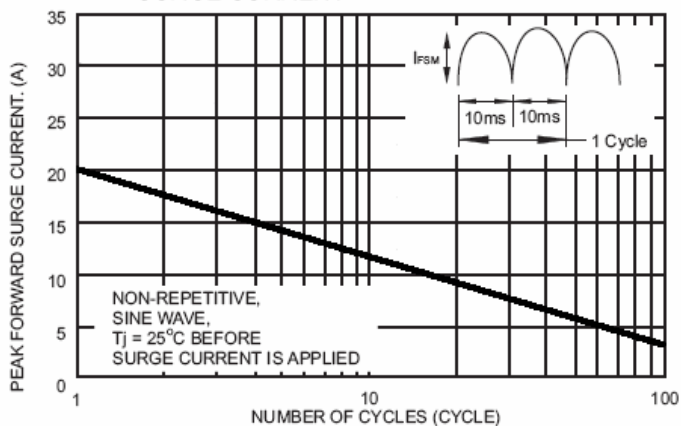


FIG.4- FORWARD POWER DISSIPATION

