

RLLB08

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT FAST FLAT BRIDGE RECTIFIER

VOLTAGE: 800V

CURRENT: 1.0A

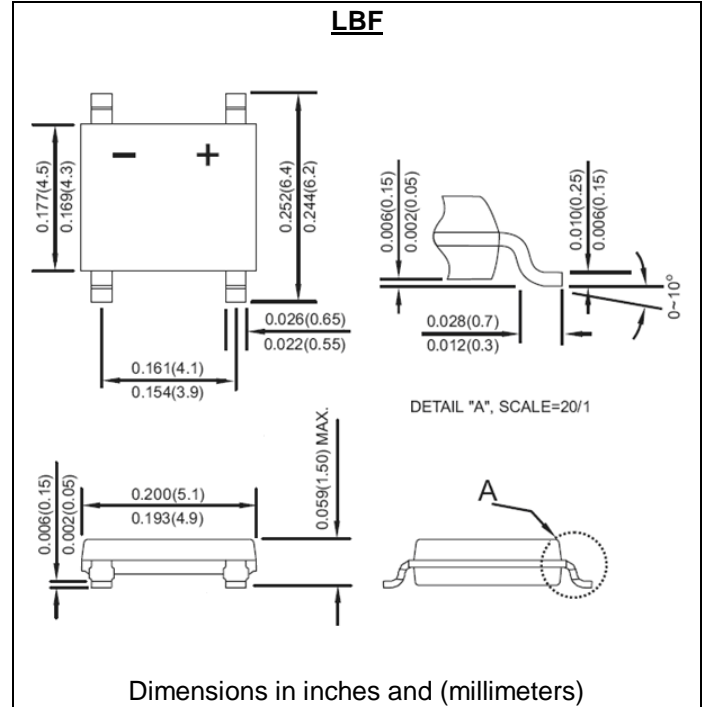


FEATURE

- 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

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 | RLLB08 | Units |
|---|--|------------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 800 | V |
| Maximum RMS Voltage | V _{rms} | 560 | V |
| Maximum DC blocking Voltage | V _{dc} | 800 | V |
| Maximum Average Forward Rectified Current on aluminum substrate on glass-epoxy P.C.B. | I _{f(av)} | 1.0 0.8 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 30 | A |
| Maximum Instantaneous Forward Voltage at forward current 0.4A | V _f | 1.3 | V |
| Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =125°C | I _r | 5.0 100.0 | μA |
| Maximum Reverse Recovery Time (Note 1) | T _{rr} | 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 RLLB08

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

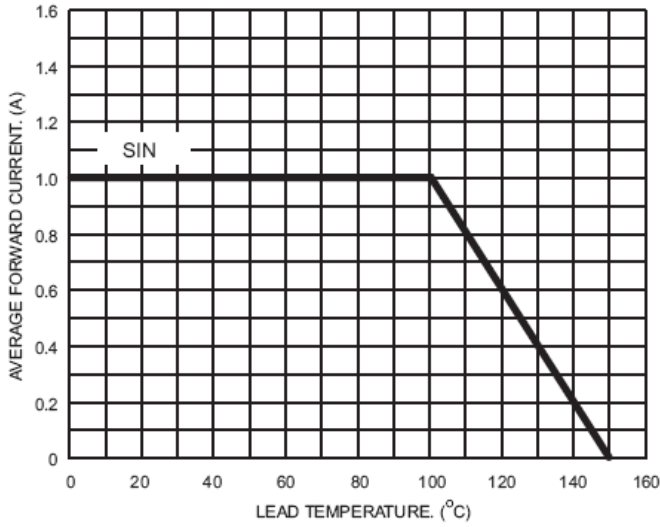


FIG.2- TYPICAL FORWARD CHARACTERISTICS

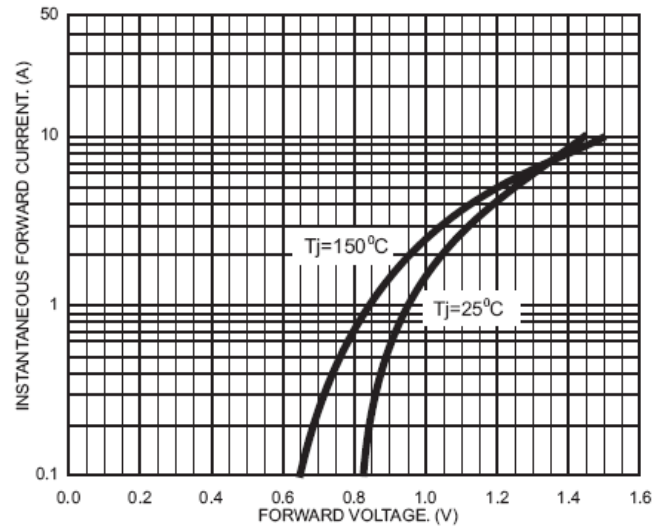


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

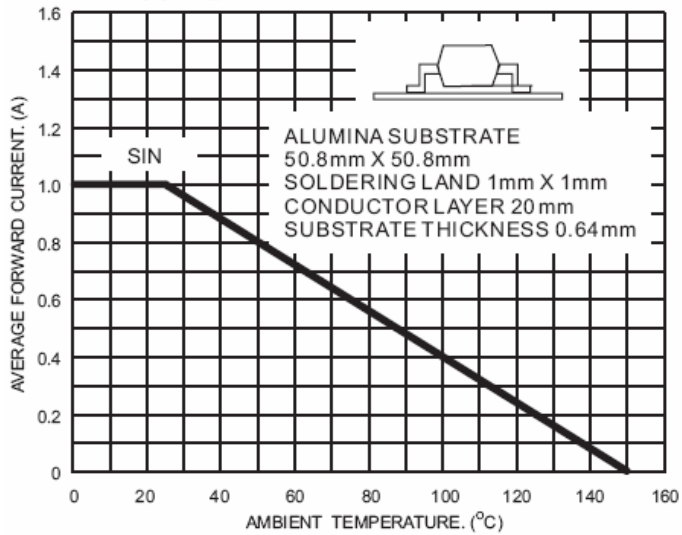


FIG.4- FORWARD POWER DISSIPATION

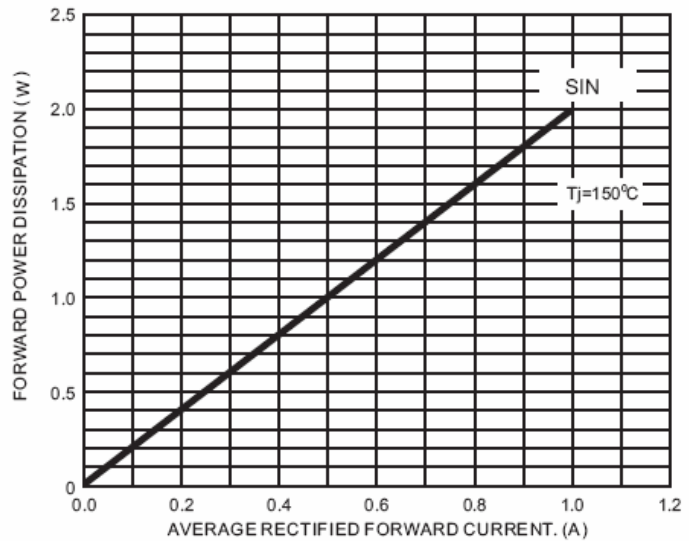


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

