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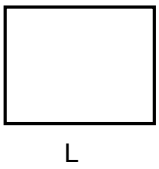
1. Scope:

This test method is designed to determine the board temperature rise with corresponding to 350mA forward current within 1 hours.

2. Test specimens

a). 1 set of sample are prepared. The dimension as below:



a). 15mm X 15mm

b). Board thickness: 1.27mm

c). Mounted the LED onto the center of the boards, reflow the LED with solder paste and make sure there have solder paste on the beneath metal part. Refer to diagram 1.

d).LED specification: Luxeon Flash LED (LXCL-PWF1) - White color

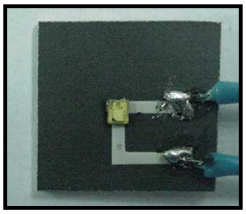


Diagram 1

3. Apparatus

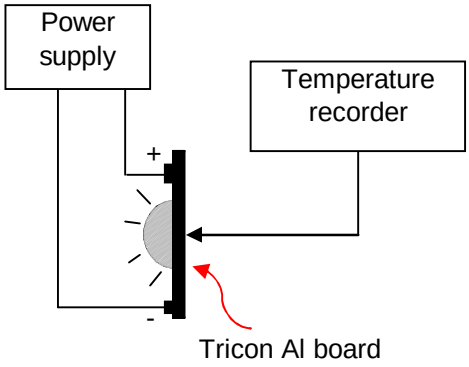
3.1. **Power Supply source**: Kenwood Regulated DC power supply PR18-3.

3.2. **Measurement Meter**: Advantest R6871E digital multimeter.

3.3. **Temperature Recording**: Yokogawa Temperature Recorder.

4. Procedure

4.1. Prepare the circuit connection as below diagram, the test specimen will drive with 350mA forward current. Record the board temperature rise when it was reached the saturation level.



5. Result

Room temperature: 23.5°C

Board size (mm x mm)	Thickness (mm)	LED Colors	Power		Board Temperature (°C)
			If (mA)	Vf(V)	
15 X 15	1.27	White	350	3.722	68.8

Note: Thermal conductivity: 175W/m-K