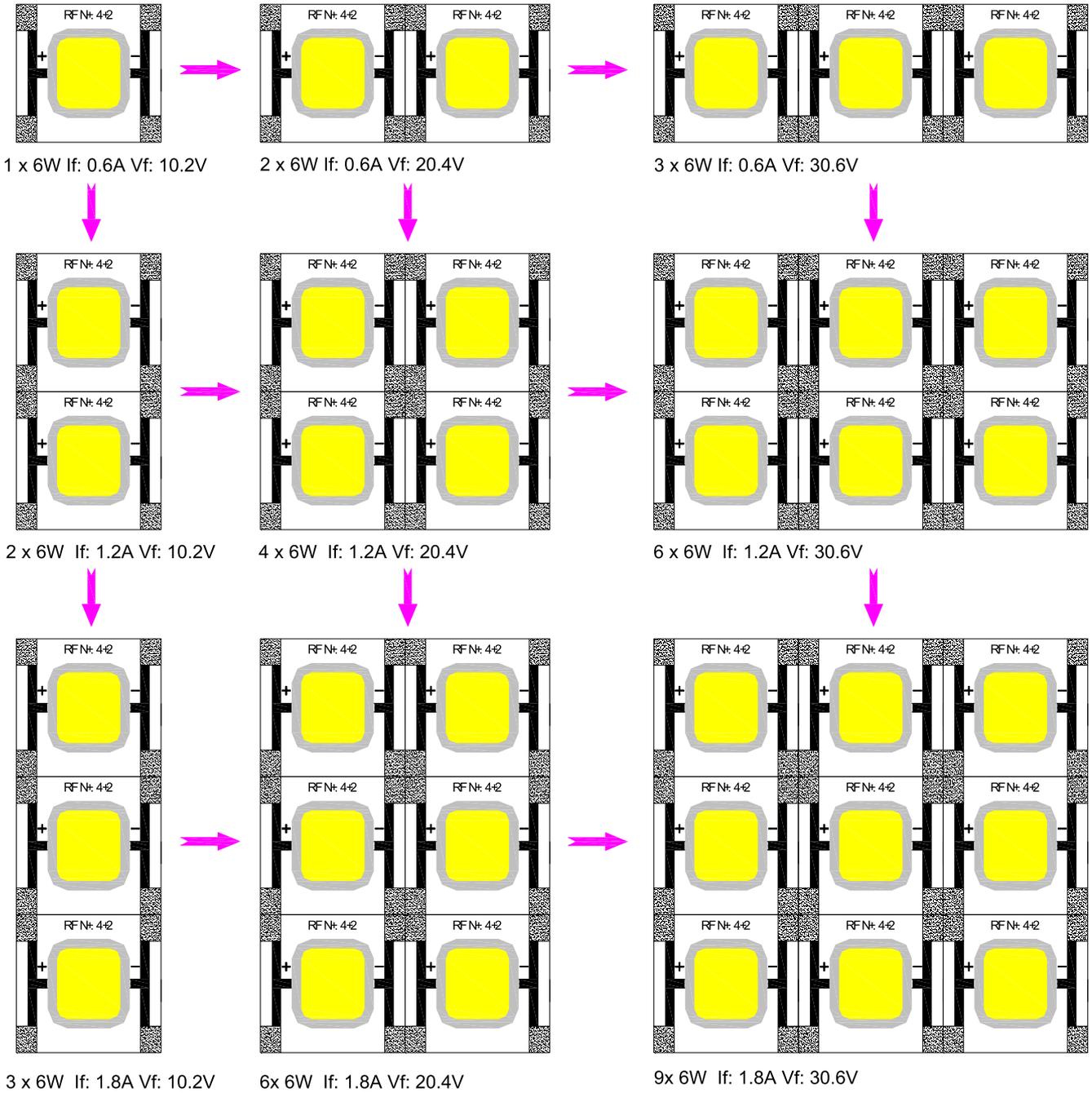


Customer DIY

Customers can refer to the following do DIY



Customer DIY

Heat design

The following pictures show some measurements of mounted 5W Led on the heat sink for each board A and B (See Fig 1) with using thermograph to make an observation about heat distribution. Each boards is tested at various current conditions.

As a result, LED needs larger heat sink as much as possible to reduce its own case temperature.

Fig. 1 Configuration pattern examples for board assembly

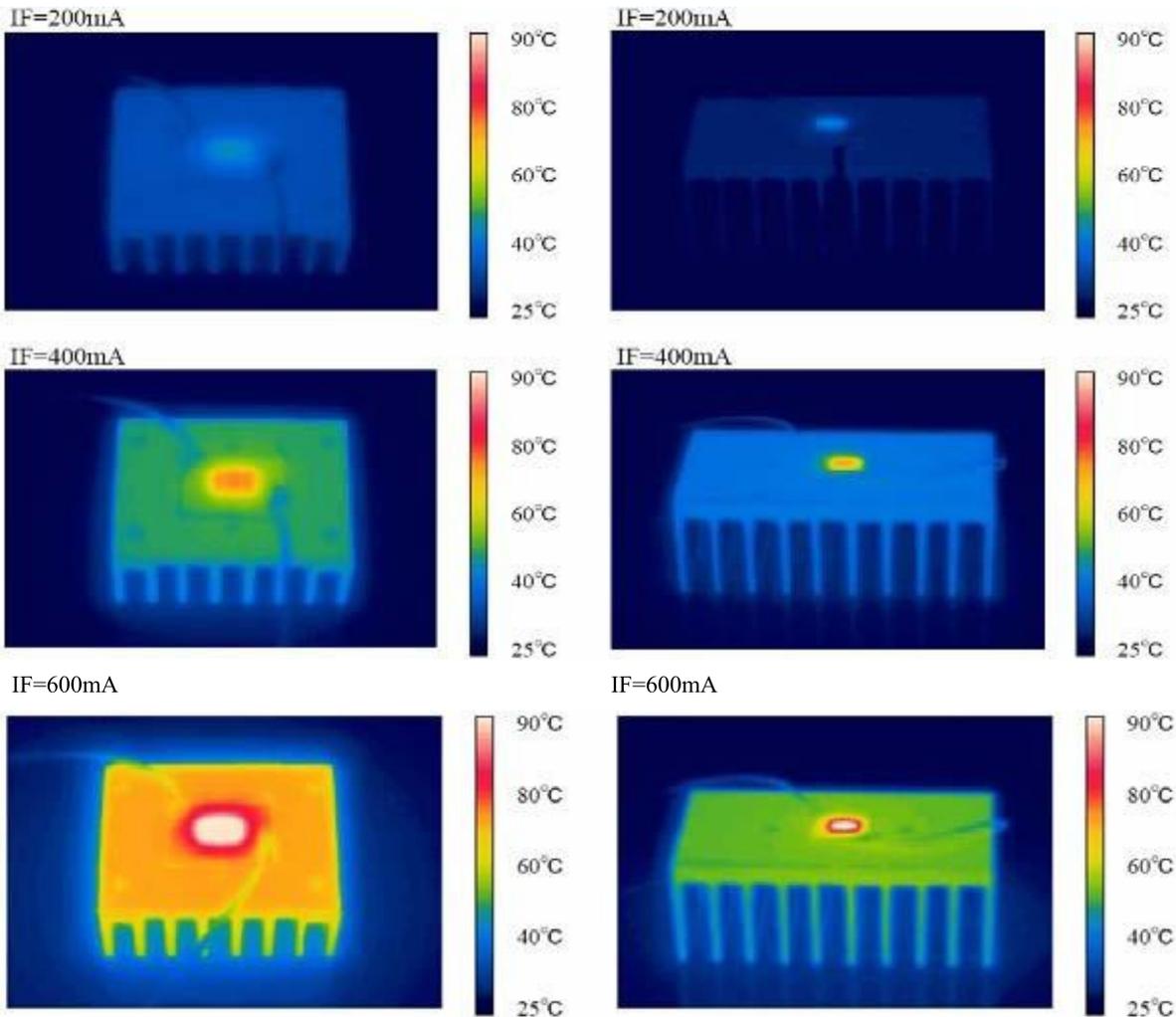
Board	LED power	Material	Surface area (m ²) Min.
A	5W	Al	20,600
B	10W	Al	41,200
C	25W	Al	103,000
D	50W	Al	206,000
E	100W	Al	412,000
F	200W	Al	824,000
G	300W	Al	1236,000

Above tested LED device is attached with adhesive sheet to the heatsink.

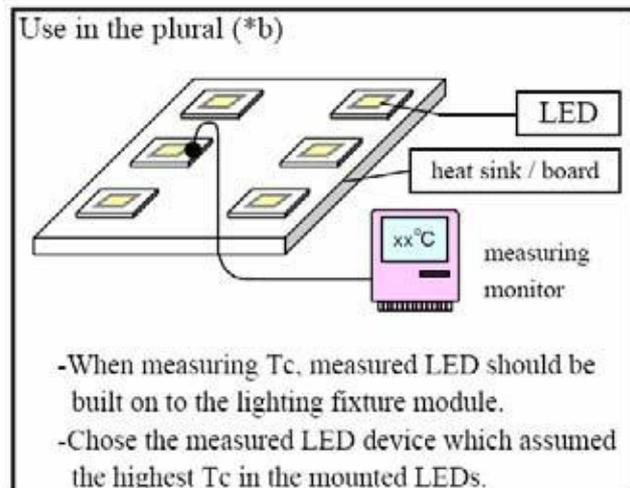
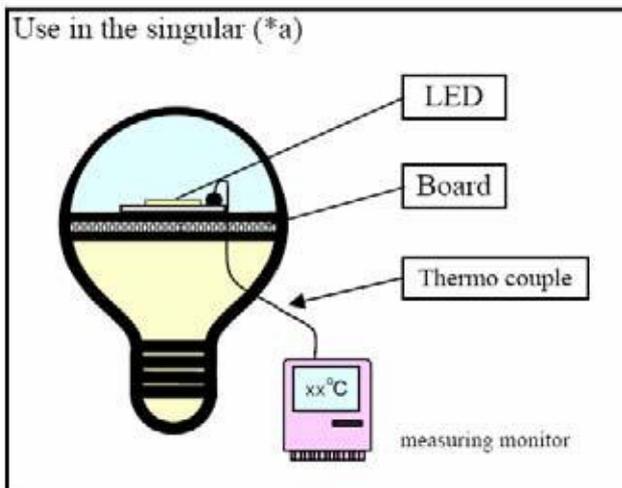
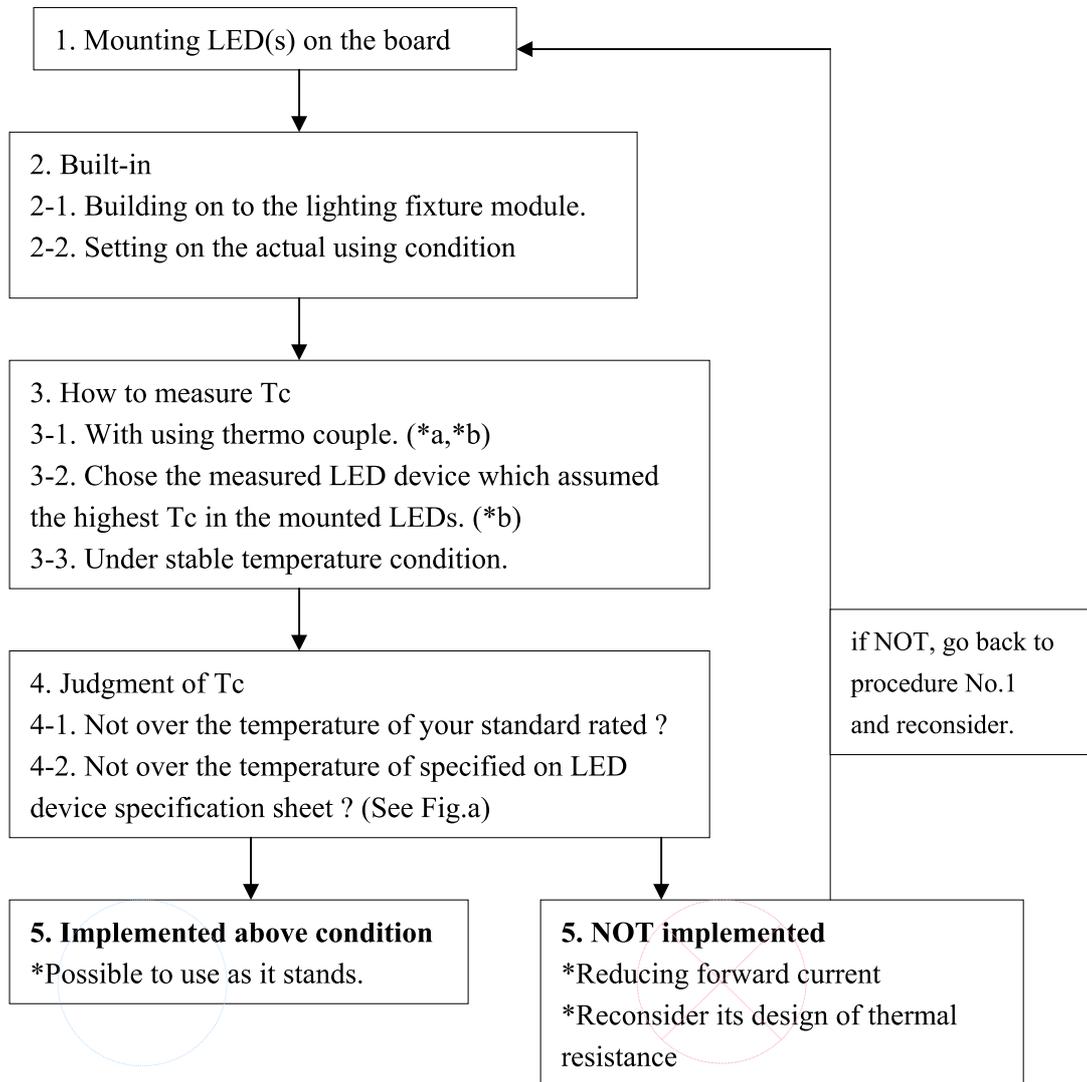
For reference's sake, Tj absolute maximum rating is defined at 115 μ as a prerequisite on design process of 5W LED.

<Fig.2> Board A (surface area=10,300m²)

<Fig.3> Board B (surface area=20,600m²)

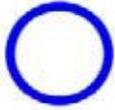


Heat design → Design flow chart



‘ **Handling** → **Manually handling**

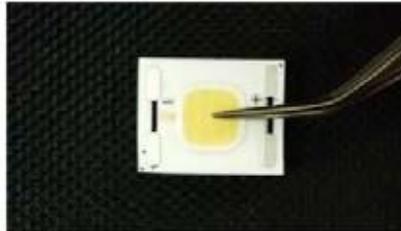
Use tweezers to catch hold of LEDs at the base substrate part. Do not touch the lens with the tweezers and fingers. Do not press on the lens.



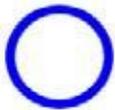
Correct



Wrong



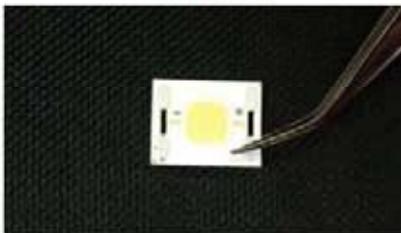
Do not touch the yellow emission resin part.



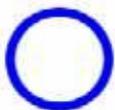
Correct



Wrong



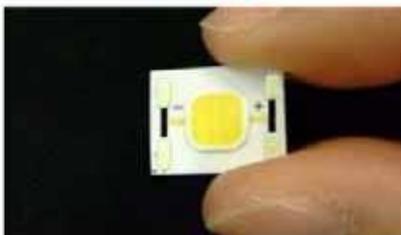
Do not touch both electrodes.



Correct



Wrong



Do not touch with naked finger. Strongly recommended to use a fingertip.