# YETDA INDUSTRY LTD.

## 5mm Red Super Bright LED Lamps
## Q500NOI4D+-TB

5mm with AlGaInP Dice。

Encapsulated with Water Clear Package。

Two Leads with stopper。

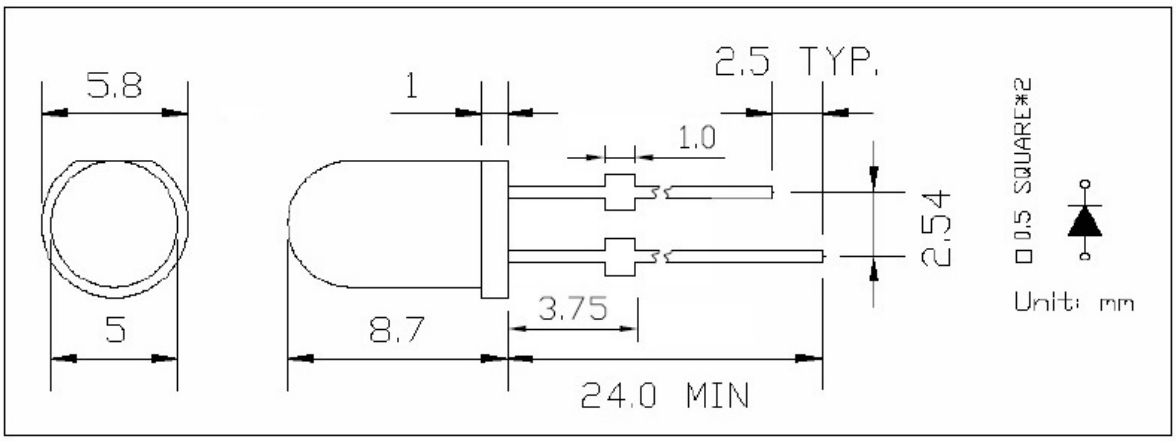
**Absolute Maximum Ratings : ( Ta=25℃ )**

| Parameter | Symbol | Maximum Rating | Unit |
|---|---|---|---|
| Power Dissipation | PD | 50 | mw |
| Reverse Voltage | VR | 5 | V |
| Average Forward Current | LAF | 20 | mA |
| Peak Forward Current (Duty=0.1,10KHZ) | IPF | 100 | mA |
| Opertating Temperature Range | TOPR | -20℃ to +80 ℃ | |
| Storage Temperature Range | TSTG | -40℃ to +100 ℃ | |
| Lead Soldering Temperature {1.6mm(0.063inch) From Body} 260℃ For 3 Seconds | | | |

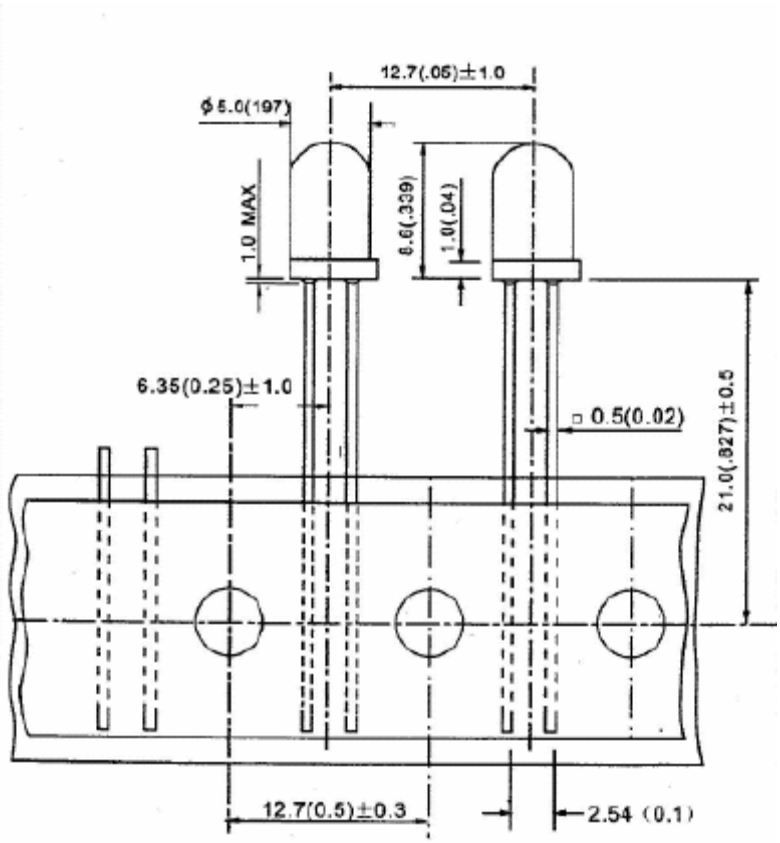
**Electro-Optical Characteristics （Ta = 25℃）**

| Parameter | Test Condition | Symbol | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Forward Voltage | IF = 20mA | VF | | 2.0 | 2.4 | V |
| Reverse Current | VR =5V | IR | | | 10 | uA |
| Luminous Intensity | IF = 20mA | Iv | 4200 | | 8500 | mcd |
| Wavelength | IF = 20mA | λ | 620 | 625 | 630 | nm |
| Viewing Angle | IF = 20mA | 2θ 1/2 | | 30 | | deg |

Item: 500+




**2019JUL26Y**


12.7(.05)±1.0
ϕ5.0(197)
1.0 MAX
6.6(.339)
1.0(.04)
6.35(0.25)±1.0
□ 0.5(0.02)
21.0(.827)±0.5
12.7(0.5)±0.3
2.54 (0.1)

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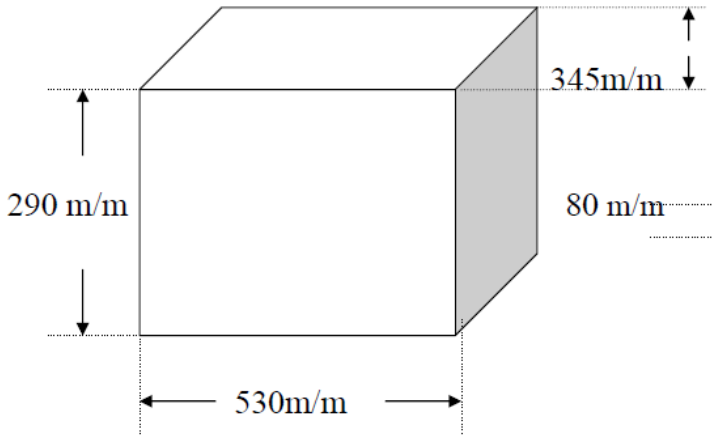
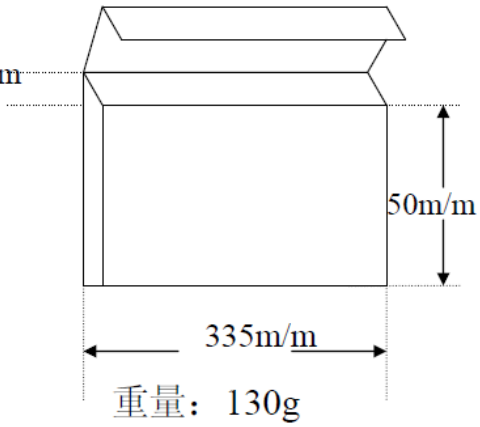
# L.E.D折叠式外箱、内盒包装规范

外箱尺寸： **290*345*530**




重量：850g

内盒尺寸： 335*250*50




重量：130g

包装形式：折叠式包装（T/B）

包装数量：T/B3 φ、**2500Pcs**

T/B5 φ、**2000Pcs**

（每 10 小盒装一大箱）外箱

## Typical Electro-Qptical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

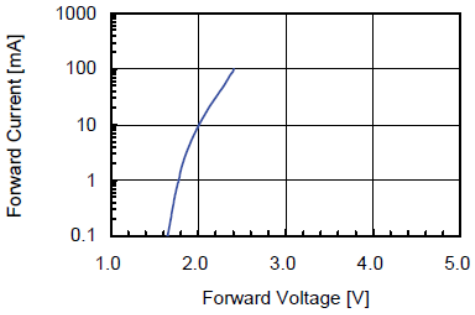



Fig 2. Relative Intensity vs. Forward Current

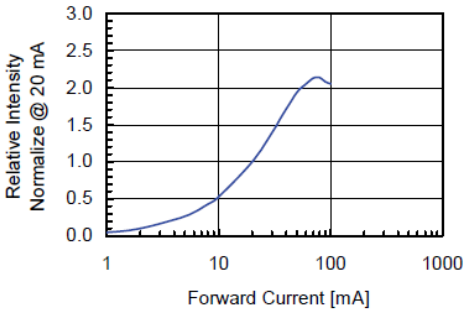



Fig 3. Forward Voltage vs. Temperature

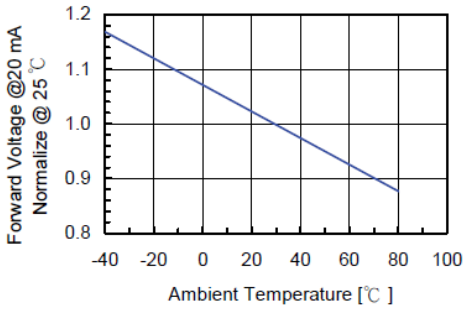



Fig 4. Relative Intensity vs. Temperature

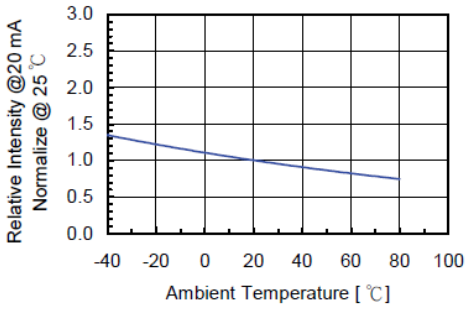
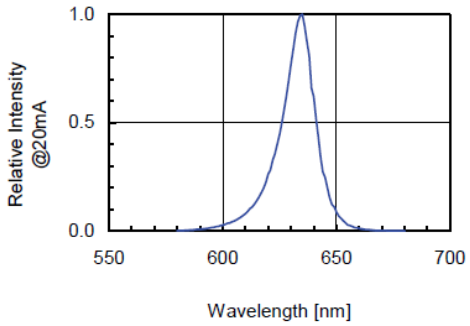



Fig 5. Relative Intensity vs. Wavelength



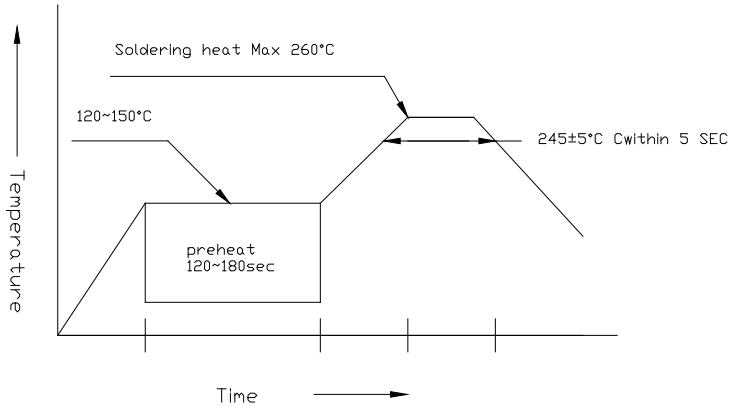
**Soldering:**

1. Manual of soldering

The temperature of the iron tip should not be higher than 260 °Cand
Soldering within 3 seconds per solder-land is to be observed

2. DIP soldering (Wave Soldering):

Preheating:120 °C~150°C within 5 sec.260°C(Max)
Gradual Cooling (Avoid quenching)




**•Handling:**

Care must be taken not to cause to the epoxy resin portion of Yetda LEDS while it is exposed to high temperature.

Care must be taken not rub the epoxy resin portion of Yetda LEDS with hard or sharp article such as the sand blast and the metal hook