



# YETDA INDUSTRY LTD.

## 5mm Red Super Bright LED Lamps Q500HCHCR1H-5V

5mm with AlGaInP Dice with Resistor chip inside ◦

Encapsulated with Red Diffused Package ◦

Long Leads ◦

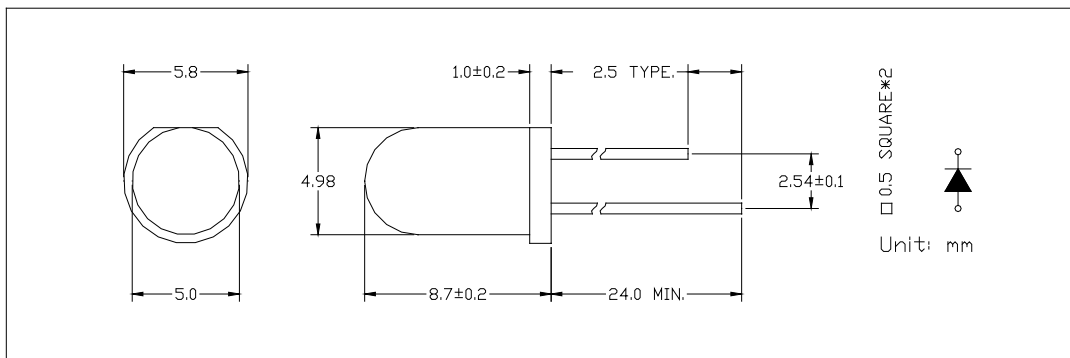
### Absolute Maximum Ratings : ( Ta=25°C )

| Parameter   | Symbol           | Maximum Rating | Unit |
|---|------------------|----------------|------|
| Power Dissipation   | PD               | 100            | mw   |
| Reverse Voltage   | VR               | 5              | V    |
| Average Forward Current   | LAF              | 30             | mA   |
| Peak Forward Current (Duty=0.1,10KHZ)   | IPF              | 200            | mA   |
| Operating Temperature Range   | T <sub>OPR</sub> | -20°C to +80   | °C   |
| Storage Temperature Range   | T <sub>STG</sub> | -40°C to +100  | °C   |
| Lead Soldering Temperature { 1.6mm(0.063inch) From Body } 260°C For 3 Seconds |                  |                |      |

### Electro-Optical Characteristics ( Ta = 25°C )

| Parameter          | Test Condition        | Symbol         | Min. | Typ. | Max. | Unit |
|--------------------|-----------------------|----------------|------|------|------|------|
| Forward Voltage    | I <sub>F</sub> = 20mA | V <sub>F</sub> |      | 5    |      | V    |
| Reverse Current    | V <sub>R</sub> = 5V   | I <sub>R</sub> |      |      | 10   | uA   |
| Luminous Intensity | I <sub>F</sub> = 20mA | I <sub>v</sub> | 150  | 200  |      | mcd  |
| Wavelength         | I <sub>F</sub> = 20mA | λ <sub>p</sub> |      |      |      |      |
|                    |                       | λ <sub>d</sub> |      | 625  |      |      |
| Viewing Angle      | I <sub>F</sub> = 20mA | 2θ 1/2         |      | 80   |      | deg  |

Item: 500



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## •Soldering:

### 1. Manual of soldering

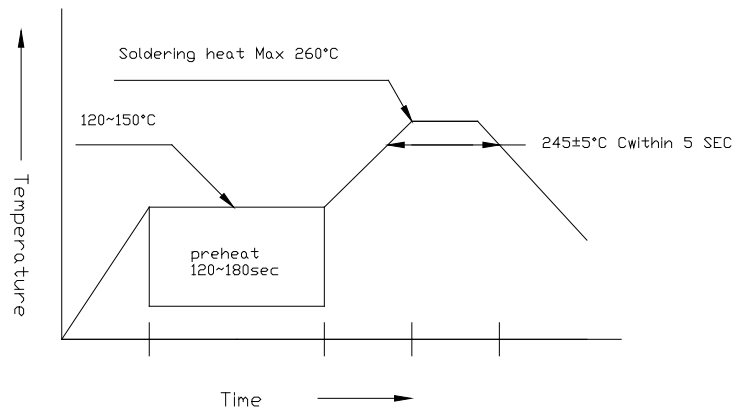
The temperature of the iron tip should not be higher than 260 °C and

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)

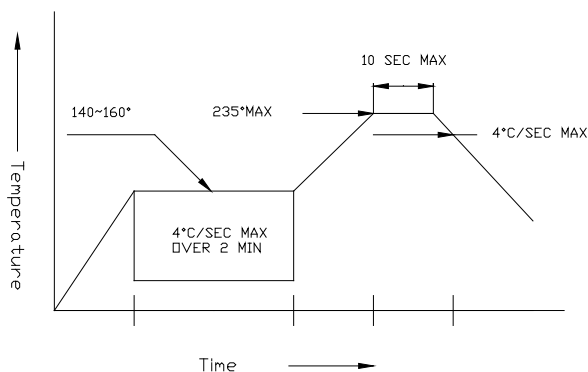


### 3. Reflow Soldering

Preheating: 140 °C ~ 160 °C, within 2 minutes.

Operation heating: 235 °C (Max) within 10 seconds (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