



YETDA INDUSTRY LTD.

5mm Flat Blinking Yellow LED Lamps B707ANY4F-AK-CL

5 mm Flat with Yellow dice ◦

Encapsulated with Water Clear package ◦

Long Leads ◦

Absolute Maximum Ratings : (Ta=25°C)

| Parameter | Maximum Rating | Unit |
|-----------------------------|--|------|
| Peak Forward Current | 120 | mA |
| Continuous Forward Current | 30 | mA |
| Operating Temperature Range | -40°C to +85°C | |
| Storage Temperature Range | -50°C to +100°C | |
| Lead Soldering Temperature | 260°C for 3 seconds 1.6mm(0.063 inch) from body | |

Electro-Optical Characteristics (Ta = 25°C)

| Parameter Radiant | Test Condition | Symbol | Min. | Typ. | Max. | Unit |
|--------------------|-----------------------|--------------------|------|------|------|------|
| Forward Voltage | I _F = 20mA | V _F | 1.8 | 2.00 | 2.60 | V |
| Reverse Current | V _R = 5V | I _R | | | 10 | uA |
| Luminous Intensity | I _F = 20mA | I _v | 40 | 60 | 100 | mcd |
| Spectral Bandwidth | I _F = 20mA | Δλ | | 35 | | nm |
| Wavelength | I _F = 20mA | λ _p | 585 | 590 | 595 | nm |
| | | λ _d | | 625 | | nm |
| Viewing Angle | I _F = 20mA | 2 θ _{1/2} | | 120 | | deg |

Direct Current Characteristics

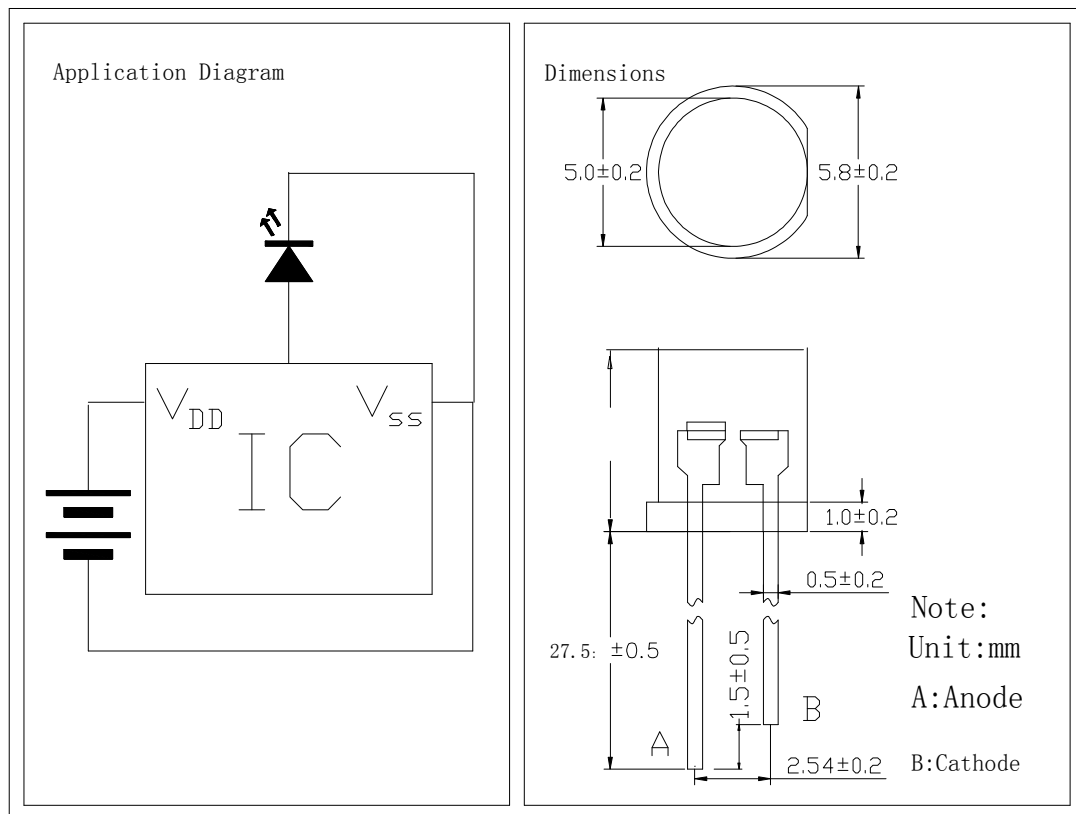
| Parameter | Symbol | Min | Typ. | Max | Unit | Remarks |
|-------------------|-----------------|-----|------|-----|------|-------------------------|
| Operating voltage | V _{DD} | 3.5 | 4.0 | 4.5 | V | ❖ |
| Driver Current | I _{ol} | | 30 | | mA | @ V _{DS} =1.2V |
| Power Consumption | P _o | | 90 | | mW | V _{DD} =4.5V |

15SPE08H



YETDA INDUSTRY LTD.

Packag





YETDA INDUSTRY LTD.

典型光電特性曲線圖 Typical photo electricity characteristic curve chart

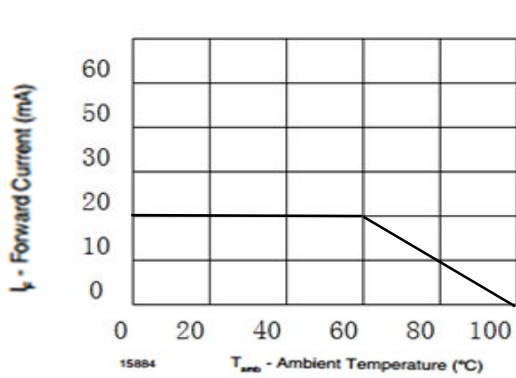


Fig. 1 - Forward Current vs. Ambient Temperature for InGaN

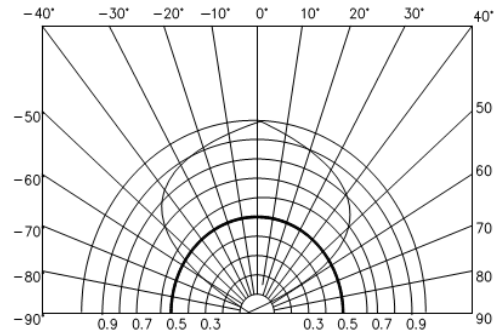


Fig. 4 - Relative Luminous Flux vs. Ambient Temperature

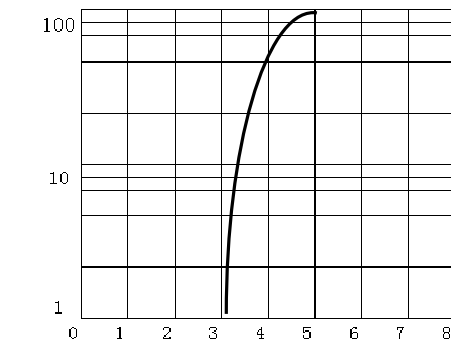


Fig. 5 - Relative Luminous Flux vs. Forward Current

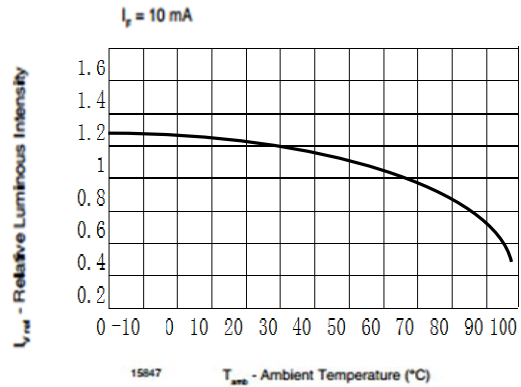


Fig. 4 - Relative Luminous Flux vs. Ambient Temperature

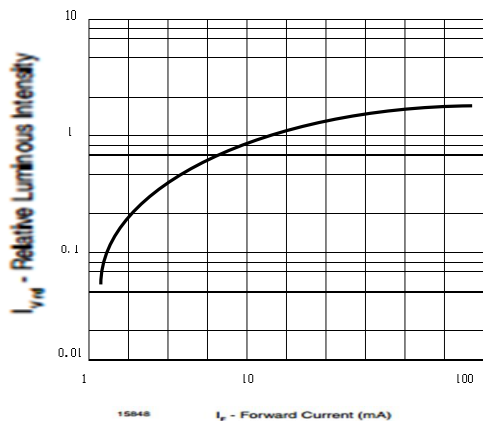


Fig. 5 - Relative Luminous Flux vs. Forward Current

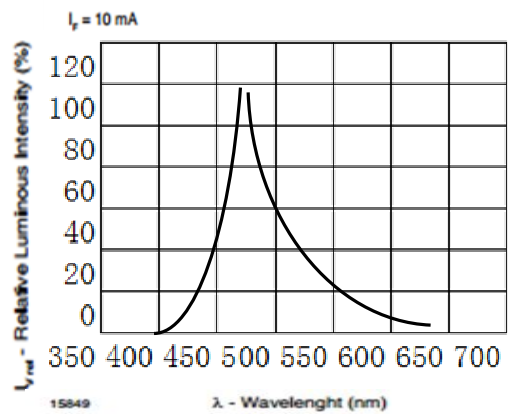


Fig. 6 - Relative Intensity vs. Wavelength



YETDA INDUSTRY LTD.

•Soldering:

1. Manual of soldering

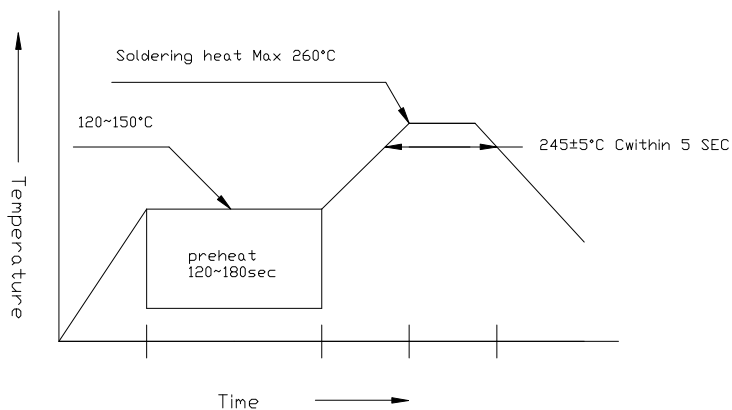
The temperature of the iron tip should not be higher than 260°C and

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)

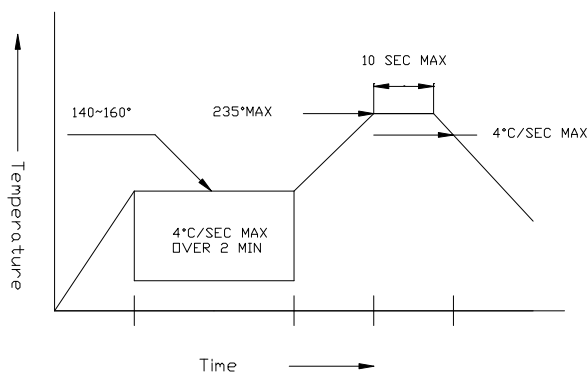


3. Reflow Soldering

Preheating: 140°C ~ 160°C ± 5°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