



YETDA INDUSTRY LTD.

### 3mm Flangeless Super Bright Warm White LED Lamps S306TWW2G

- 3mm with InGaN Dice ◦
- Encapsulated with Milky Lens Package ◦
- Long Leads ◦

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

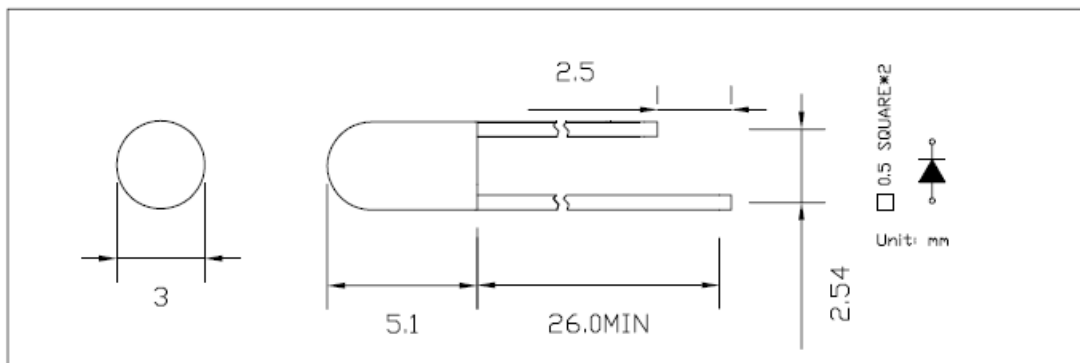
Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	30	mA
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-50°C to +100°C	
Lead Soldering Temperature	260°C for 3 seconds 1.6mm(0.063 inch) from body	

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

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I <sub>F</sub> = 20mA	V <sub>F</sub>	2.8		3.6	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>	1200	1600		mcd
CIE ( White )	I <sub>F</sub> = 20mA	X		0.45		
		Y		0.41		
Viewing Angle	I <sub>F</sub> = 20mA	2θ 1/2		60		deg

Package

Item: 306





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Fig 1. Forward Current vs. Forward Voltage

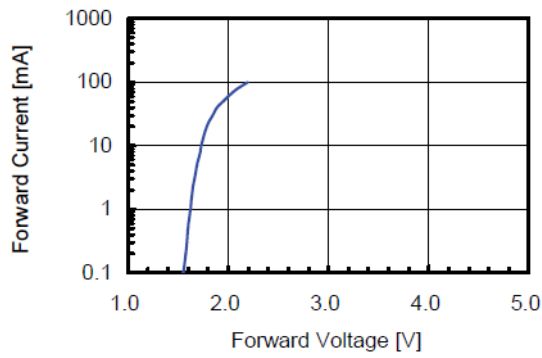


Fig 2. Relative Intensity vs. Forward Current

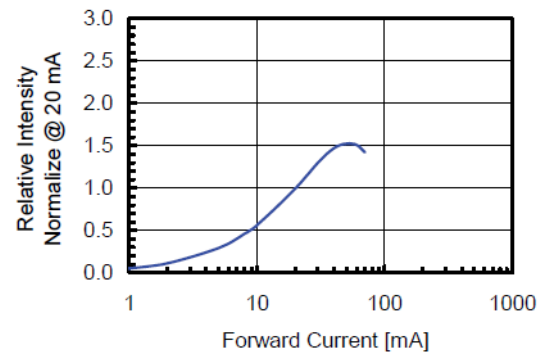


Fig 3. Forward Voltage vs. Temperature

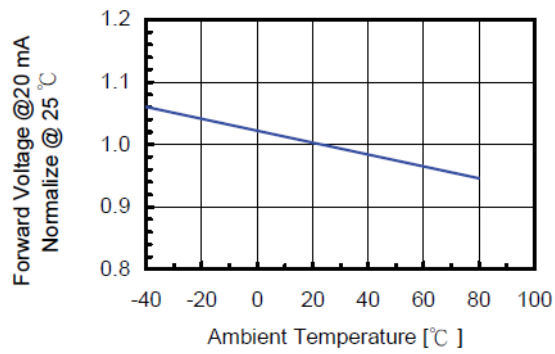
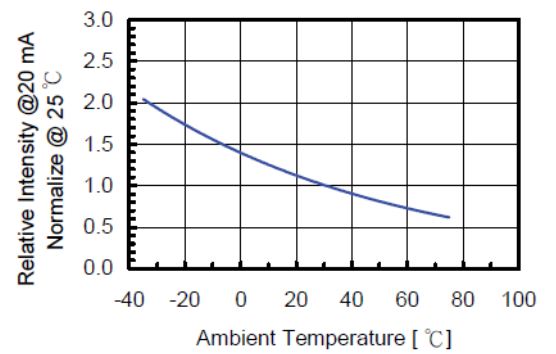


Fig 4. Relative Intensity vs. Temperature





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## •Soldering:

### 1. Manual of soldering

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

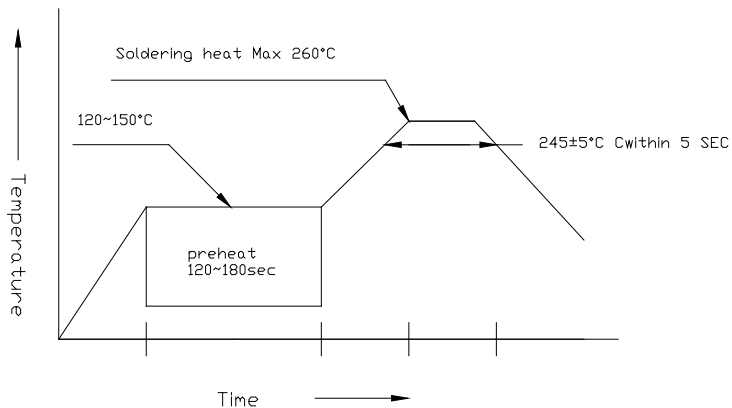
Soldering within 3 seconds per solder-land is to be observed

### 2. DIP soldering (Wave Soldering):

Preheating: 120

°C ~ 150°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching)



### 3. Reflow Soldering

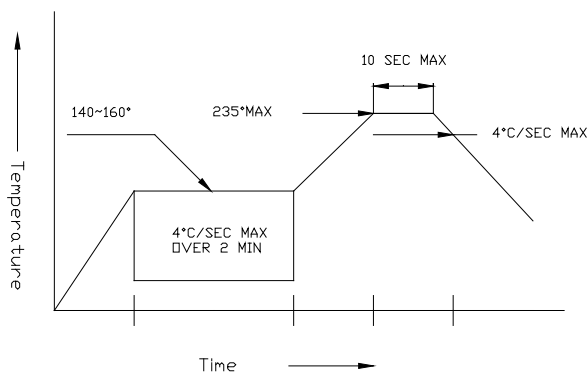
Preheating: 140

°C ~ 160°C ±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