



# YETDA INDUSTRY LTD.

## 3mm Red+ Green LED Lamps with Holder YD-309EGM-1HD

\* 3mm Red and Green Dice.

\* Encapsulated with Color Diffused Package with holder.

### Absolute Maximum Ratings :

Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	25	mA
Operating Temperature Range	- 20°C to + 75°C	
Storage Temperature Range	- 40°C to + 80°C	
Lead Soldering Temperature	260°C for 3 seconds 1.6mm(0.063 inch) from body	

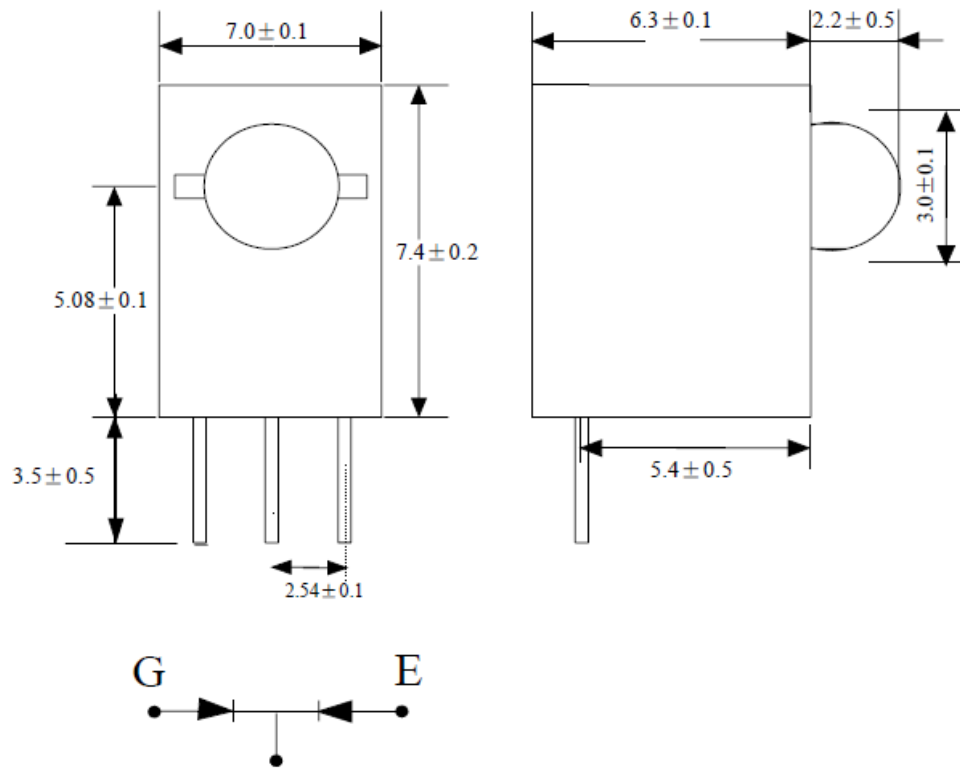
### Electro-Optical Characteristics (Ta = 25 °C)

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit	
Forward Voltage	IF = 20mA	VF	Red	2.0	2.2	2.3	V
			Green	2.0	2.2	2.5	
Reverse Current	VR = 5V	IR			10	uA	
Luminous Intensity	IF = 20mA	Iv	Red	30	40	50	mcd
			Green	20	30	40	
Wavelength	IF = 20mA	$\lambda_D$	Red	647	650	653	nm
			Green	565	568	573	
Viewing Angle	IF = 20mA	$\theta$ 1/2		60		deg	

### Package :



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## ■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

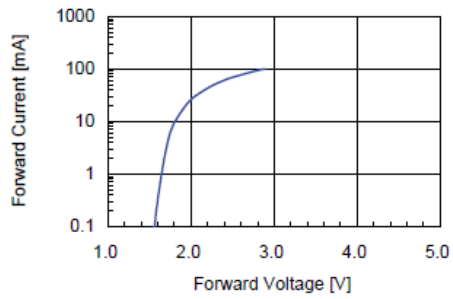


Fig 2. Relative Intensity vs. Forward Current

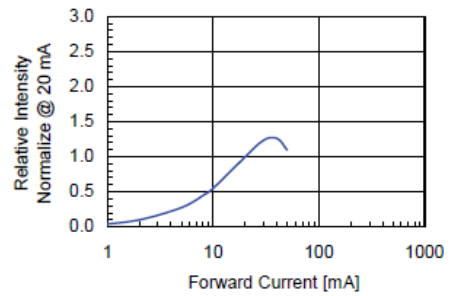


Fig 3. Forward Voltage vs. Temperature

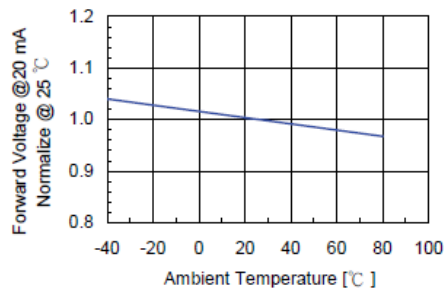


Fig 4. Relative Intensity vs. Temperature

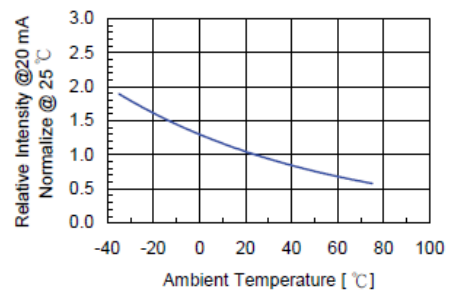
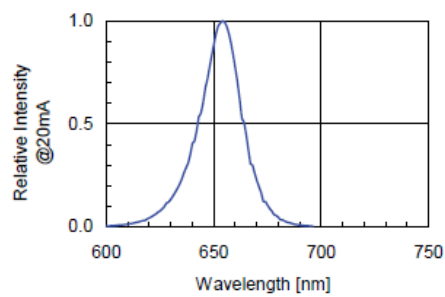


Fig 5. Relative Intensity vs. Wavelength





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## ■ Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

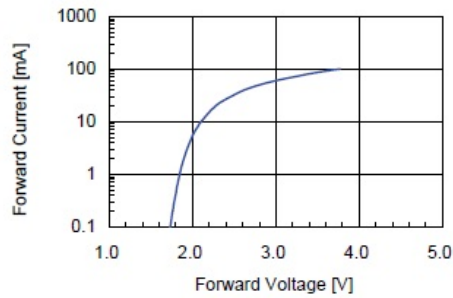


Fig 2. Relative Intensity vs. Forward Current

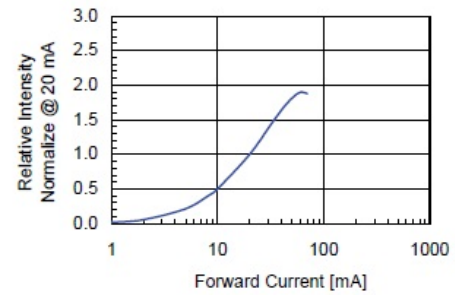


Fig 3. Forward Voltage vs. Temperature

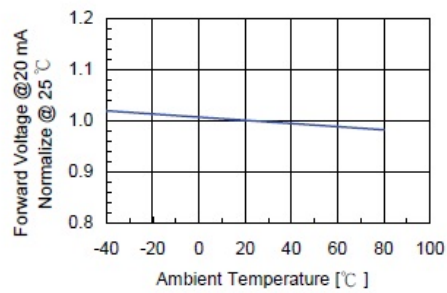


Fig 4. Relative Intensity vs. Temperature

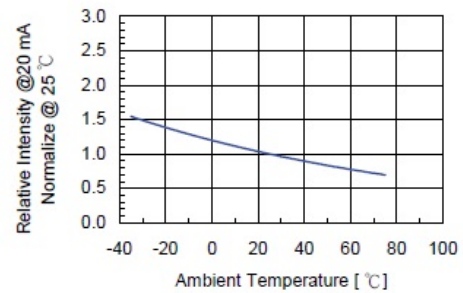
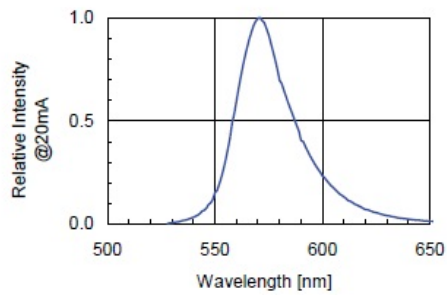


Fig 5. Relative Intensity vs. Wavelength





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## •Soldering:

### 1. Manual of soldering

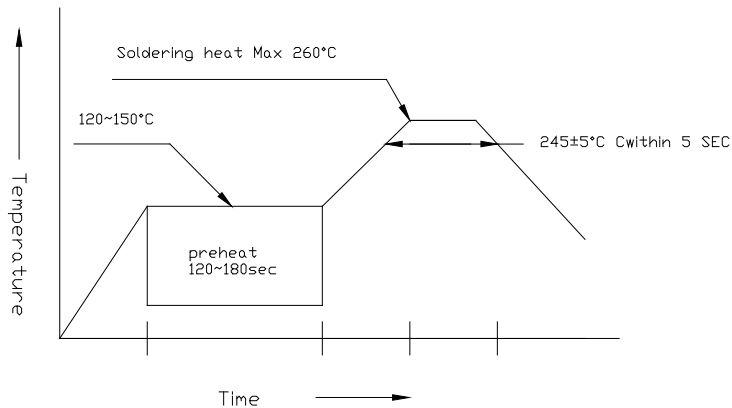
The temperature of the iron tip should not be higher than 260 °C and

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)

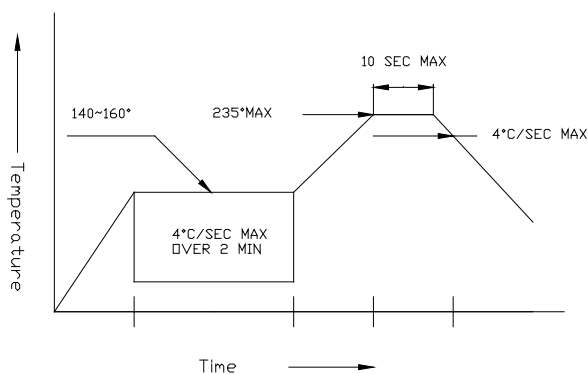


### 3. Reflow Soldering

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