



# YETDA INDUSTRY LTD.

## 5mm Red LED Lamps with holder H020HTR1-PP3

5mm with AlGaInP Dice ◦

Encapsulated with Red Diffused Package ◦

Long Leads ◦

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

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
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			

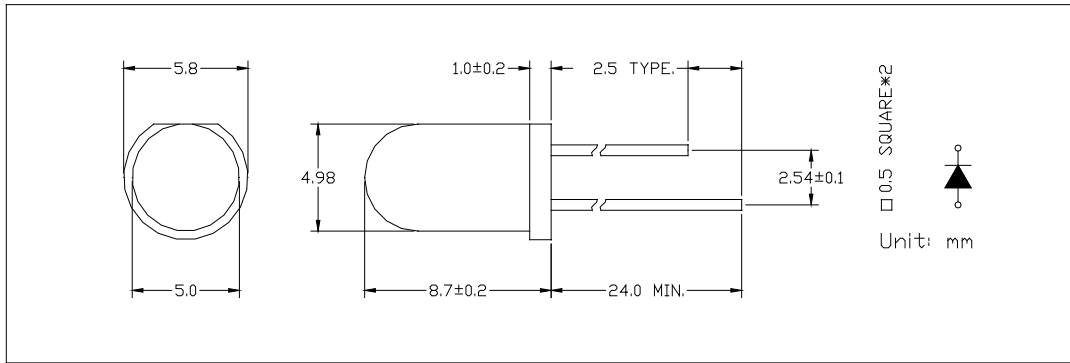
### Electro-Optical Characteristics ( Ta = 25°C )

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I <sub>F</sub> = 20mA	V <sub>F</sub>		2.0	2.4	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>	70	90		mcd
Wavelength	I <sub>F</sub> = 20mA	λ <sub>p</sub>		635		
		λ <sub>d</sub>	620	625		
Viewing Angle	I <sub>F</sub> = 20mA	2θ 1/2		80		deg



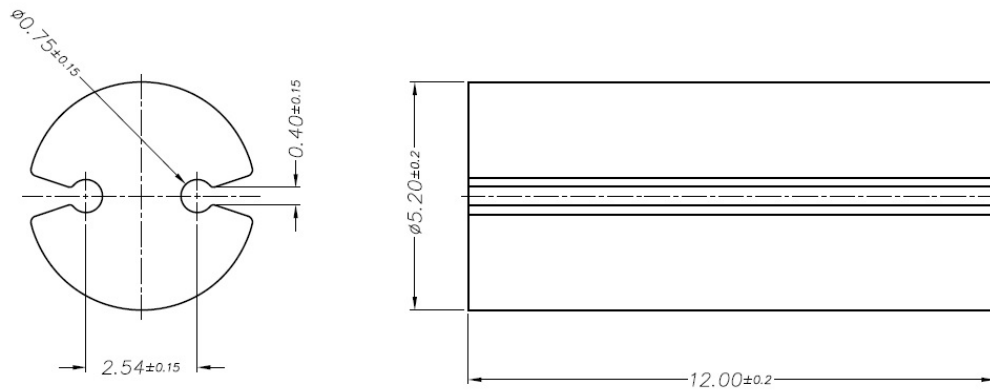
# YETDA INDUSTRY LTD.

Item: 500



P/N: H020HTR1-PP3

8-JAN-2018



UNIT:mm

成形品寸法	公差
4mm 以下	±0.15
4mm ~ 15mm 以下	±0.2
15mm ~ 30mm 以下	±0.3
30mm ~ 50mm 以下	±0.5
50mm ~ 100mm 以下	±0.7
100mm 以上	±1.0

2018JAN25Y



# YETDA INDUSTRY LTD.

## Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

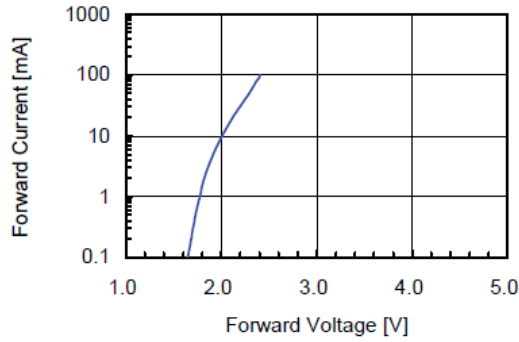


Fig 2. Relative Intensity vs. Forward Current

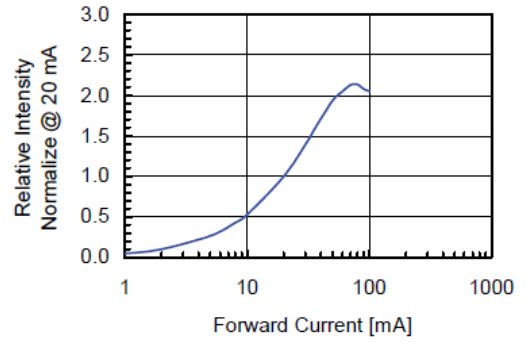


Fig 3. Forward Voltage vs. Temperature

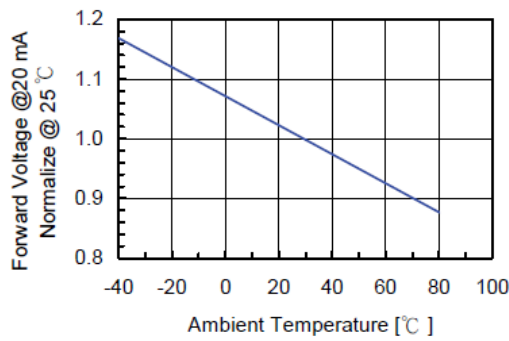


Fig 4. Relative Intensity vs. Temperature

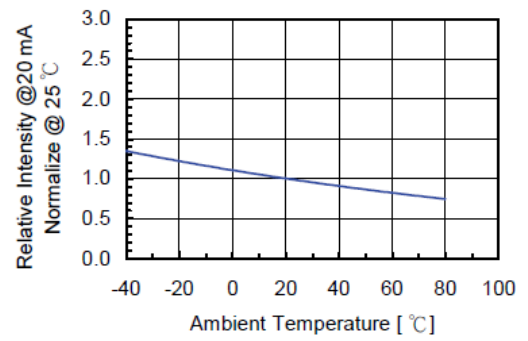
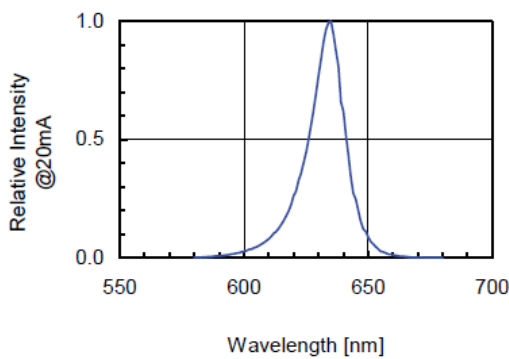


Fig 5. Relative Intensity vs. Wavelength





# YETDA INDUSTRY LTD.

## Soldering:

### 1. Manual of soldering

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

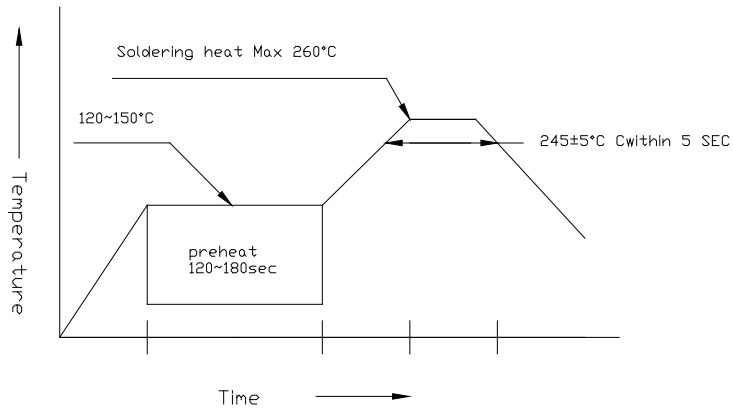
Soldering within 3 seconds per solder-land is to be observed

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

Preheating: 120

°C ~ 150°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching)



## •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