



# YETDA INDUSTRY LTD.

## F300ICHTG2K-CA 3mm Red + Green Bi Color LED Lamps

- \* 3mm Bi-color with AlGaInP and InGaN Dice.
- \* Encapsulated with diffused Package with 3 leads.
- \* Common Anode

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

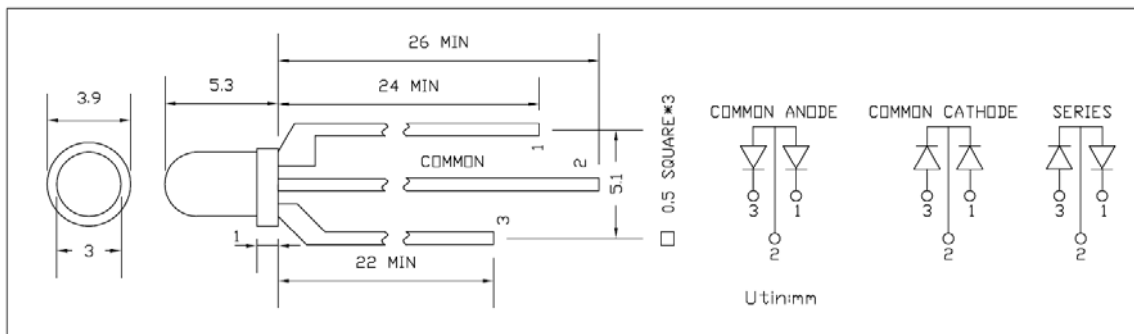
Parameter	Symbol	Red	Green	Unit
Power Dissipation	PD	100	100	mw
Reverse Voltage	VR	5	5	V
Average Forward Current	LAF	30	30	mA
Peak Forward Current (Duty=0.1,10KHZ)	IPF	200	200	mA
Opertating Temperature Range	TOPR	-20°C to +80 °C		
Storage Temperature Range	TSTG	-40°C to +100 °C		
Lead Soldering Temperature {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	IF = 20mA	VF		2.2	2.4	V
			Red		3.2	
Reverse Current	VR = 5V	IR			10	uA
Luminous Intensity	IF = 20mA	IV	400	500		mcd
			Red	700	1000	
Wavelength	IF = 20mA	λD		625		nm
			Green		525	
Viewing Angle	IF = 20mA	2θ 1/2		80		deg

### Package

Item:F300XX





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## Typical Electro-Optical Characteristics Curve: for Green

Fig 1. Forward Current vs. Forward Voltage

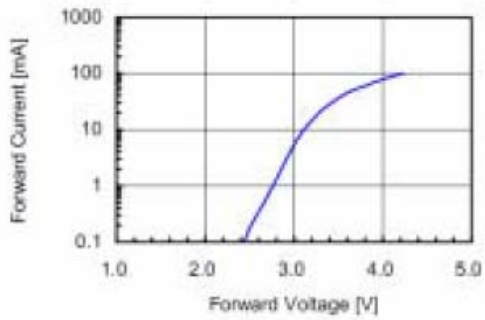


Fig 2. Relative Intensity vs. Forward Current

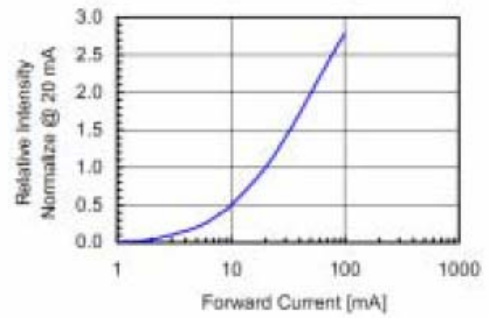


Fig 3. Forward Voltage vs. Temperature

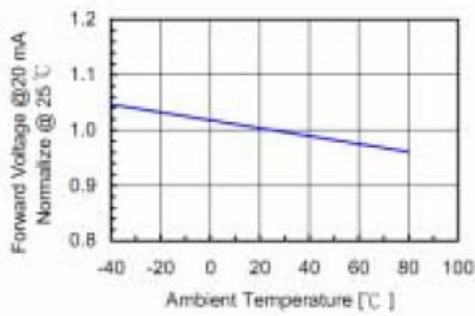


Fig 4. Relative Intensity vs. Temperature

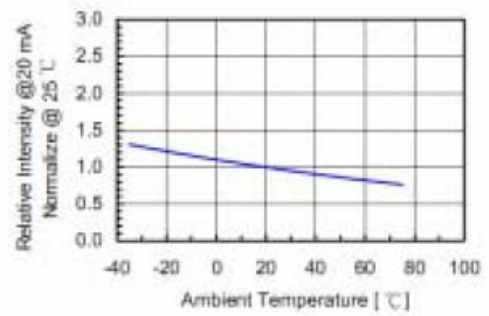
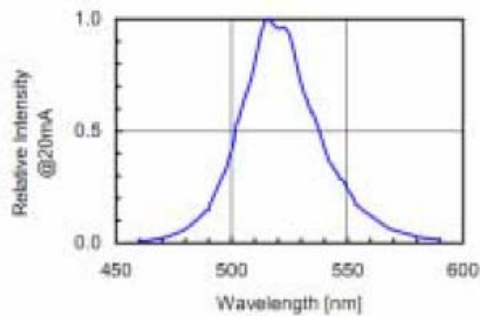


Fig 5. Relative Intensity vs. Wavelength





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## Typical Electro-Optical Characteristics Curve: for Red

Fig 1. Forward Current vs. Forward Voltage

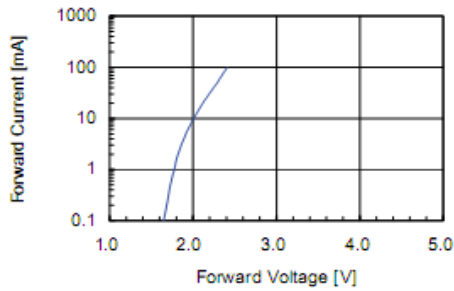


Fig 2. Relative Intensity vs. Forward Current

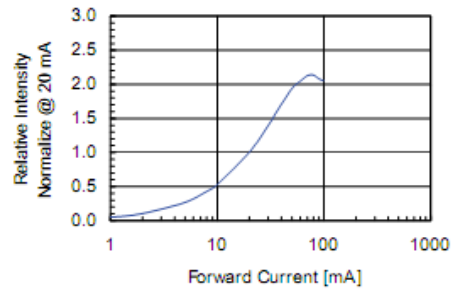


Fig 3. Forward Voltage vs. Temperature

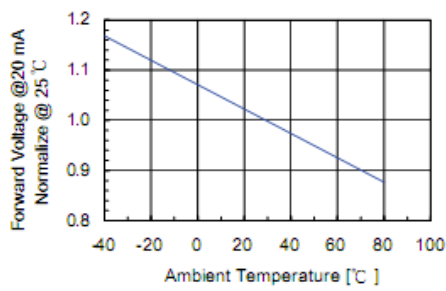


Fig 4. Relative Intensity vs. Temperature

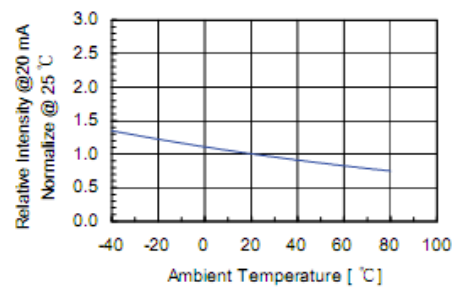
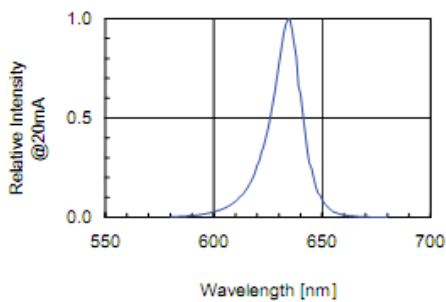


Fig 5. Relative Intensity vs. Wavelength





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## •Soldering:

### 1. Manual of soldering

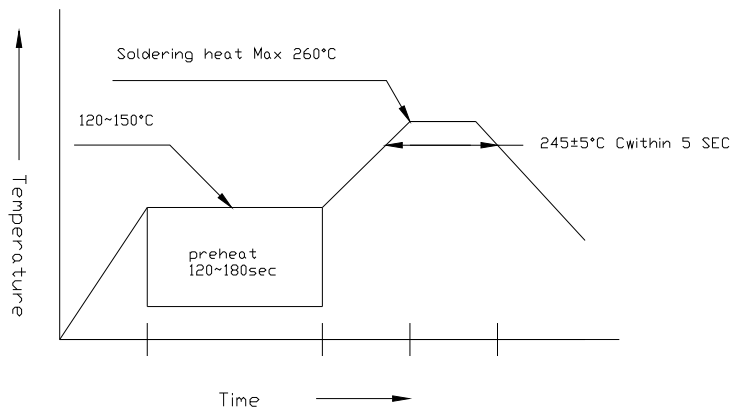
The temperature of the iron tip should not be higher than 260°C and

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)

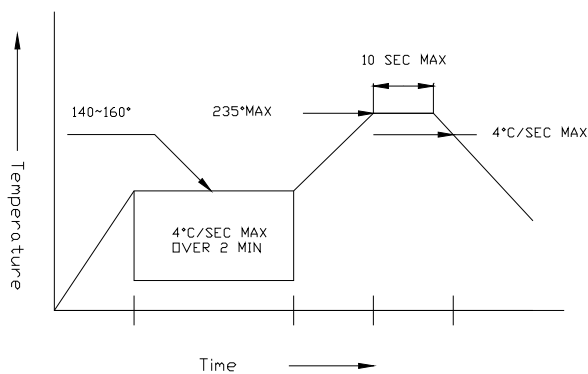


### 3. Reflow Soldering

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