

YETDA INDUSTRY LTD.

F300HCHHCY4K-CC 3mm Red + Yellow Bi Color LED Lamps

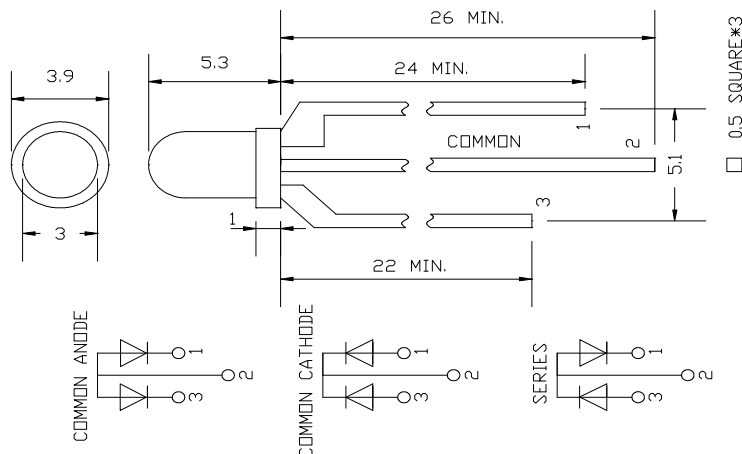
- * 3mm Bi-color with Super Bright Red and Yellow Dice.
- * Encapsulated with Water Clear Package with 3 leads.
- * Common Cathode

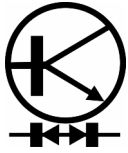
Absolute Maximum Ratings : (Ta=25°C)

Parameter	Symbol	Red	Yellow	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
Operatating Temperature Range	T _{OPR}	-20°C to +80 °C		
Storage Temperature Range	T _{STG}	-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 _F = 20mA	V _F		2.0	2.4	V
				2.0	2.4	
Reverse Current	V _R = 5V	I _R			10	uA
Luminous Intensity	I _F = 20mA	I _v	900	1200		mcd
			800	1000		mcd
Wavelength	I _F = 20mA	λ _D		625		nm
				592		nm
Viewing Angle	I _F = 20mA	2θ 1/2		20		deg





Typical Electro-Optical Characteristics Curve: for Yellow

Fig 1. Forward Current vs. Forward Voltage

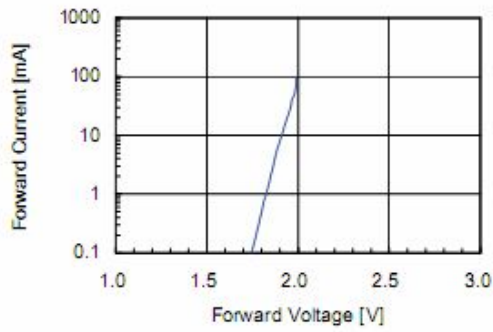


Fig 2. Relative Intensity vs. Forward Current

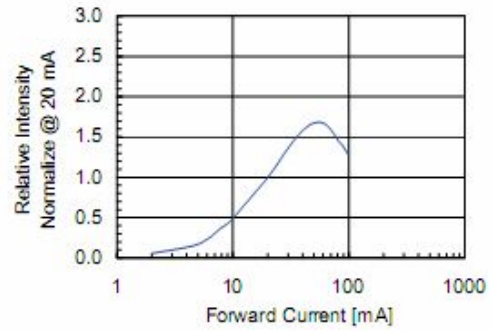


Fig 3. Forward Voltage vs. Temperature

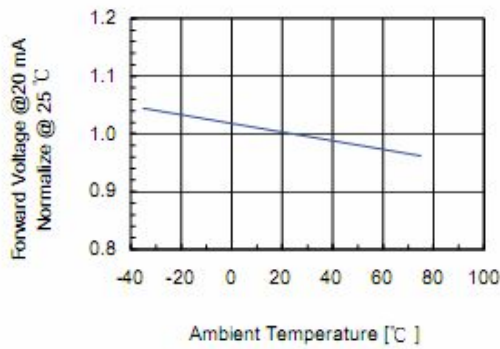


Fig 4. Relative Intensity vs. Temperature

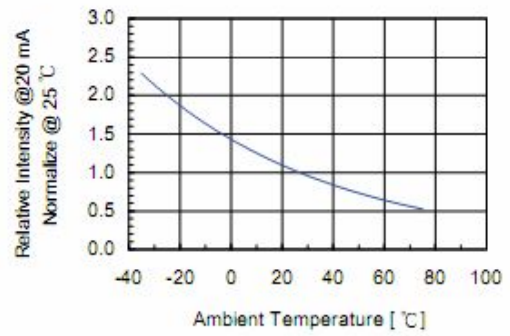
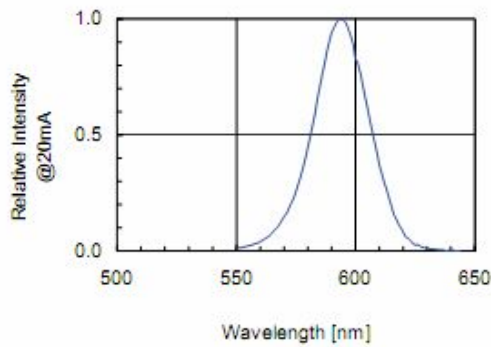


Fig 5. Relative Intensity vs. Wavelength





YETDA INDUSTRY LTD.

Typical Electro-Optical Characteristics Curve: for Red

Fig 1. Forward Current vs. Forward Voltage

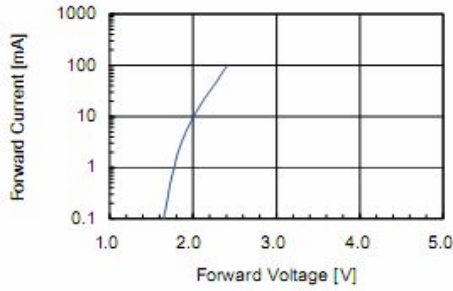


Fig 2. Relative Intensity vs. Forward Current

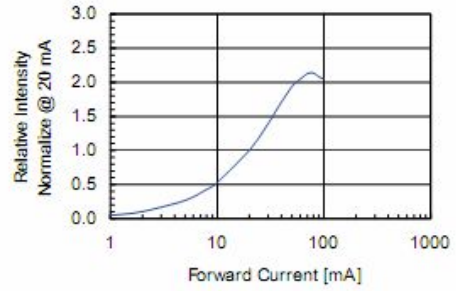


Fig 3. Forward Voltage vs. Temperature

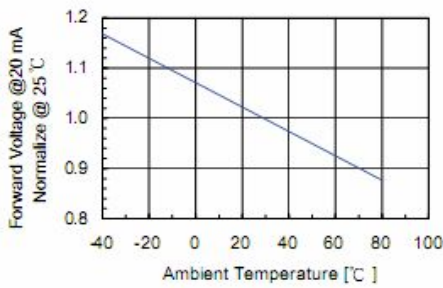


Fig 4. Relative Intensity vs. Temperature

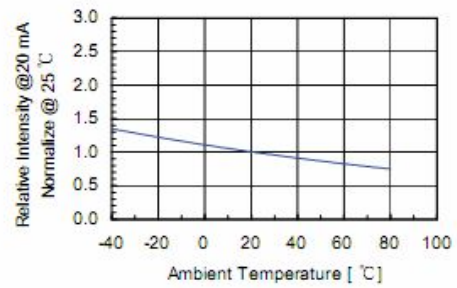
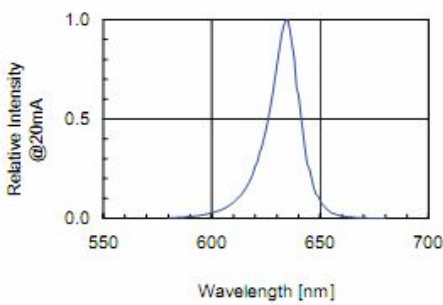
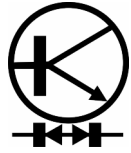


Fig 5. Relative Intensity vs. Wavelength





YETDA INDUSTRY LTD.

•Soldering:

1. Manual of soldering

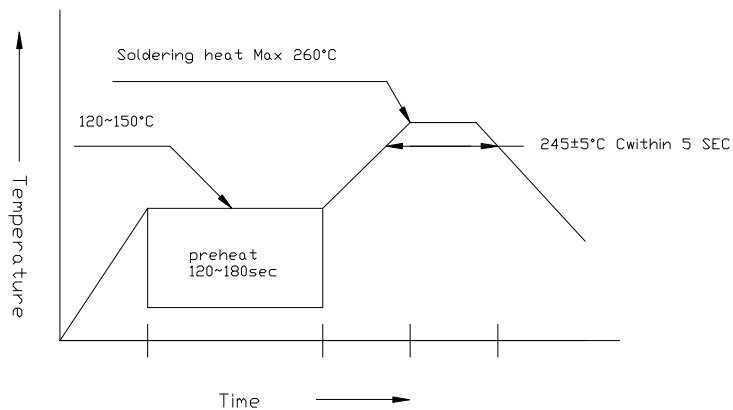
The temperature of the iron tip should not be higher than 260°C and

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)

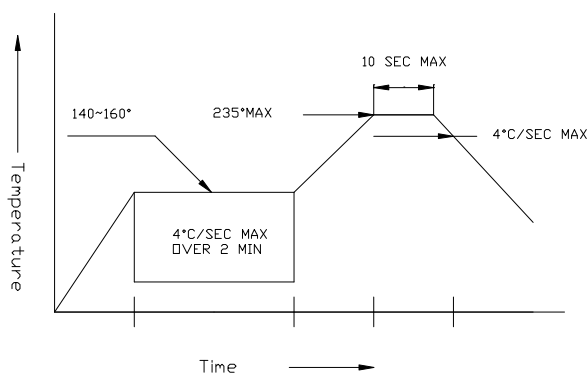


3. Reflow Soldering

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