YETDA INDUSTRY LTD.

5mm Red + Green Bi-Color Led Series
F500GOHLOG2K-CC

* 5mm Bi-color with AlGaInP + AlGaInP Dice.
* Encapsulated with Milky Lens Color Package.
* Available in indicators for two states indication.
* Common Cathode

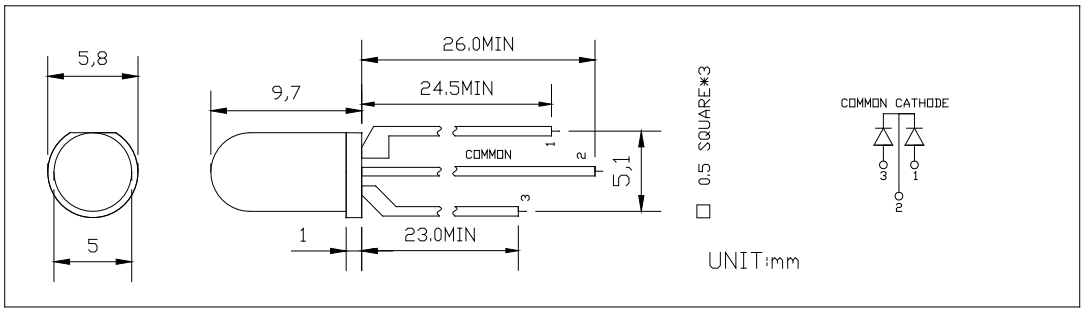
Absolute Maximum Ratings : (Ta=25℃)

Parameter	Symbol	Red	Green	Unit
Power Dissipation	PD	75	75	mw
Reverse Voltage	VR	5	5	V
Average Forward Current	LAF	20	20	mA
Peak Forward Current (Duty=0.1,10KHZ)	IPF	200	90	mA
Operating Temperature Range	TOPR	-20℃ to +80 ℃		
Storage Temperature Range	TSTG	-40℃ to +85 ℃		
Lead Soldering Temperature {1.6mm(0.063inch) From Body} 260℃ For 3 Seconds				

Electro-Optical Characteristics （Ta = 25℃）

Parameter Radiant		Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	Red	IF = 20mA	VF		2.2	2.4	V
	Green				2.2	2.4	
Reverse Current		VR =5V	IR			10	uA
Luminous Intensity	Red	IF = 20mA	Iv	260	520	840	mcd
	Green			110	230	750	
Spectral Bandwidth	Red	IF = 20mA	入		35		nm
	Green						nm
Wavelength	Red	IF = 20mA	∧ **d**	620	625	630	nm
	Green			568	570	574	
Viewing Angle		IF = 20mA	θ 1/2		80		deg

Item:F500XX



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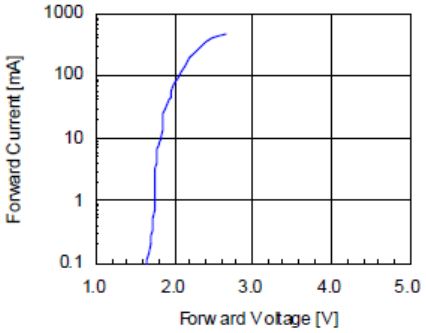


Fig 3. Forward Voltage vs. Temperature

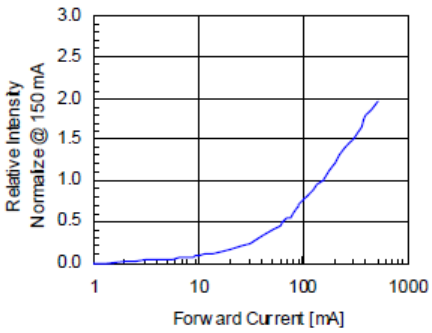
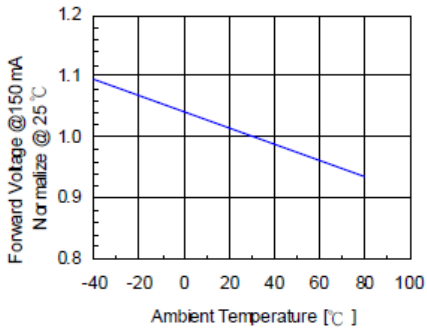


Fig 4. Relative Intensity vs. Temperature



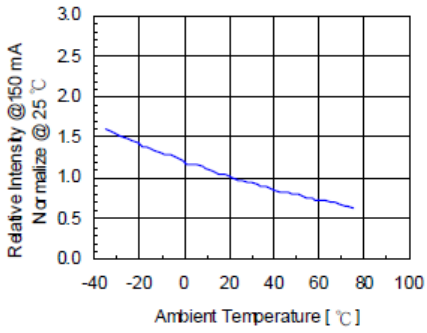


Fig 5. Relative Intensity vs. Wavelength

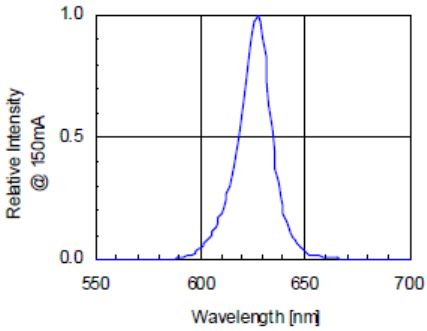


Fig 1. Forward Current vs. Forward Voltage

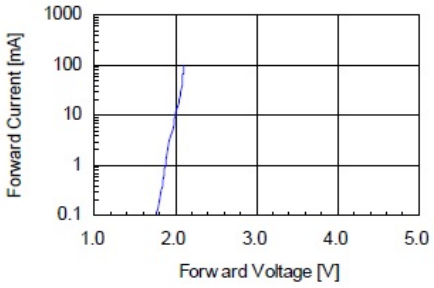
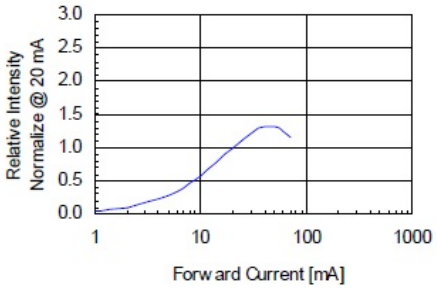


Fig 2. Relative Intensity vs. Forward Current



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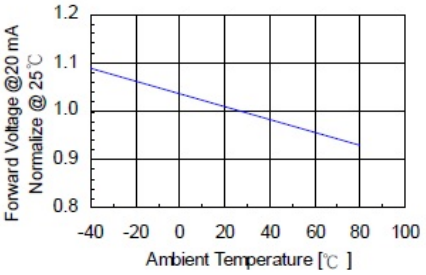

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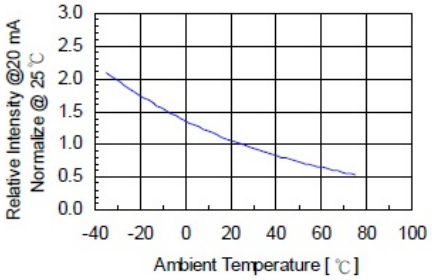

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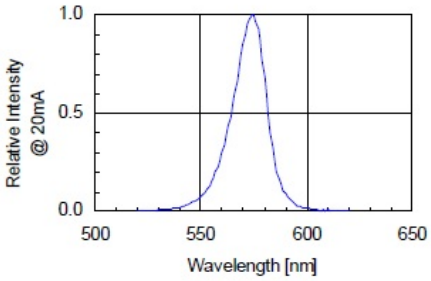


•Soldering:

1. Manual of soldering

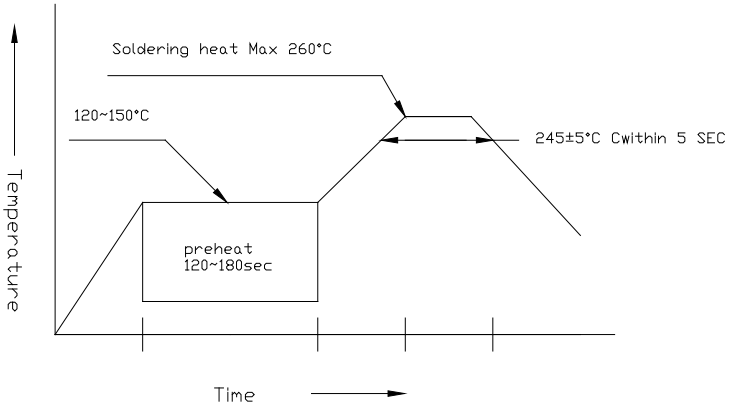
The temperature of the iron tip should not be higher than 260 ℃and

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

2. DIP soldering (Wave Soldering):

Preheating:120 ℃~150℃ within 5 sec.260℃(Max)

Gradual Cooling (Avoid quenching)

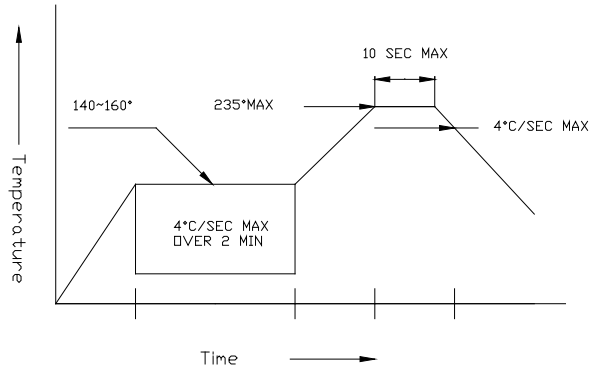


3. Reflow Soldering

Preheating:140 ℃~160℃±5℃,within 2 minutes.

Operation heating:235 ℃(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