YETDA INDUSTRY LTD.

4.8mm Green Color LED Lamps
S518TG2C

4.8 mm with InGaN dice。

Encapsulated with White diffused (Milky) package。

Long Leads。

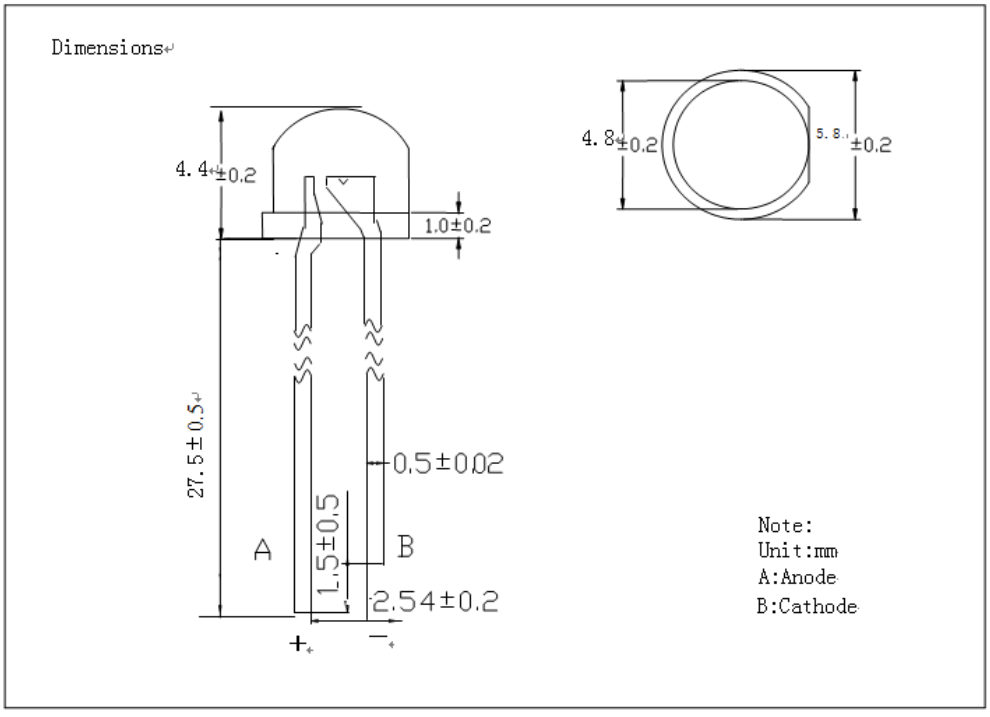
Absolute Maximum Ratings : (Ta=25℃)

Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	30	mA
Operating Temperature Range	－40℃ to ＋85℃	
Storage Temperature Range	－50℃ to ＋100℃	
Lead Soldering Temperature	260℃ for 3 seconds 1.6mm(0.063 inch) from body	

Electro-Optical Characteristics （Ta = 25℃）

Parameter Radiant	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I_F = 20mA	V_F	2.8	3.2	3.6	V
Luminous Intensity	I_F = 20mA	Iv		200		mcd
Dominant Wavelength	I_F = 20mA	λd	515	520	525	nm
Viewing Angle	I_F = 20mA	△Θ		140		deg

Package



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Typical Electro-Optical Characteristics Curve:

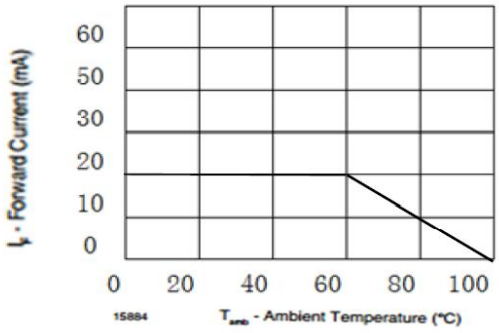


Fig. 1 - Forward Current vs. Ambient Temperature for InGaN

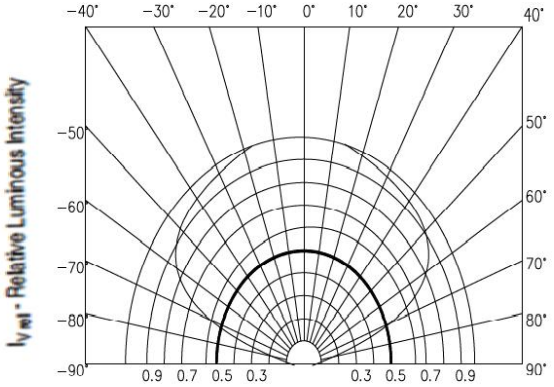


Fig. 2 - Relative Luminous Intensity vs. Angular Displacement

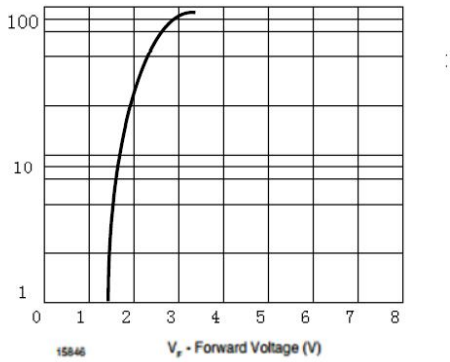


Fig. 3 - Forward Current vs. Forward Voltage

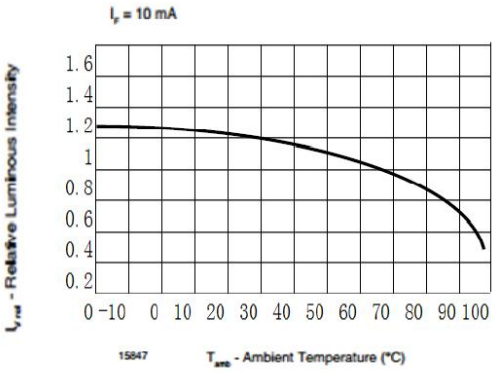


Fig. 4 - Relative Luminous Flux vs. Ambient Temperature

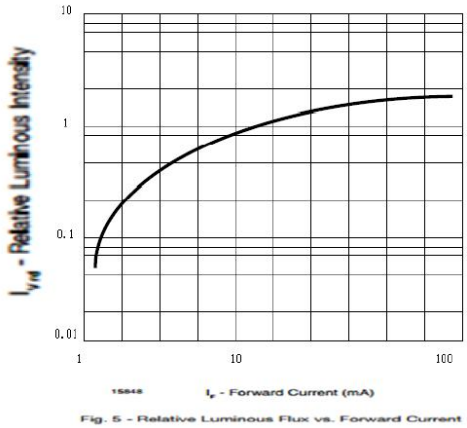


Fig. 5 - Relative Luminous Flux vs. Forward Current

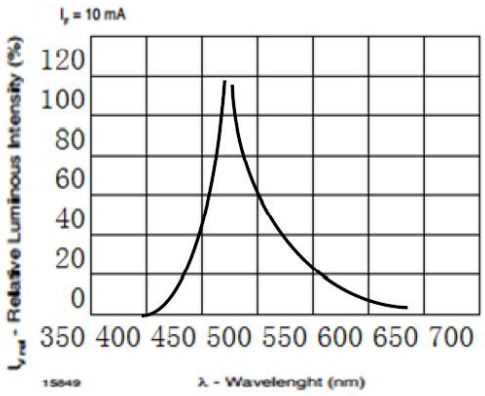


Fig. 6 - Relative Intensity vs. Wavelength

•Soldering:

1. Manual of soldering

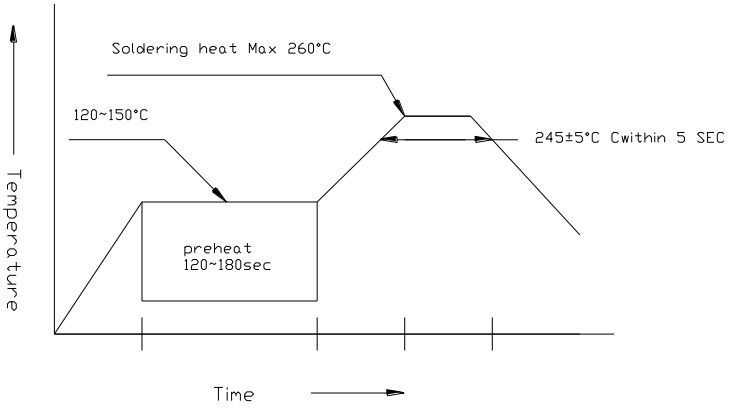
The temperature of the iron tip should not be higher than 260℃and

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)

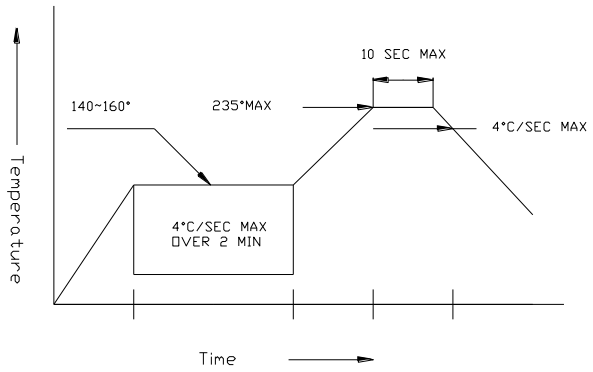


3. Reflow Soldering

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