YETDA INDUSTRY LTD.

5mm Super Bright Pure Green LED Lamps
S500TG1D

5 mm with InGaN Dice。

Encapsulated with Green Diffused Package。

Long Leads。

Absolute Maximum Ratings : (Ta=25℃)

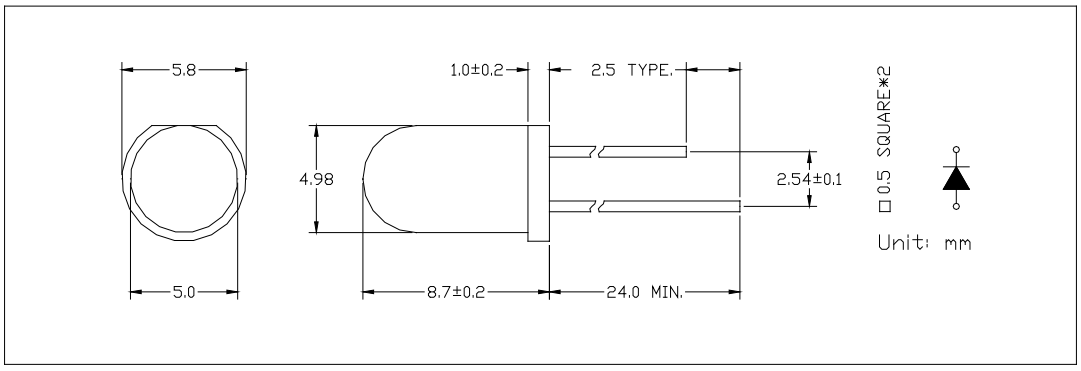
Parameter	Maximum Rating	Unit
Peak Forward Current	120	mA
Continuous Forward Current	30	mA
Operating Temperature Range	－40℃ to ＋85℃	
Storage Temperature Range	－50℃ to ＋100℃	
Lead Soldering Temperature	260℃ for 3 seconds 1.6mm(0.063 inch) from body	

Electro-Optical Characteristics （Ta = 25℃）

Parameter Radiant	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I_F = 20mA	V_F	2.8	3.0	3.4	V
Reverse Current	V_R =5V	I_R			10	uA
Luminous Intensity	I_F = 20mA	Iv	1500		2100	mcd
Spectral Bandwidth	I_F = 20mA	Δλ	30	32	35	nm
Wavelength	I_F = 20mA	λ_p		530		nm
		λd	520	525	530	nm
Viewing Angle	I_F = 20mA	2 θ1/2		80		deg

Package

Item: 500



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Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

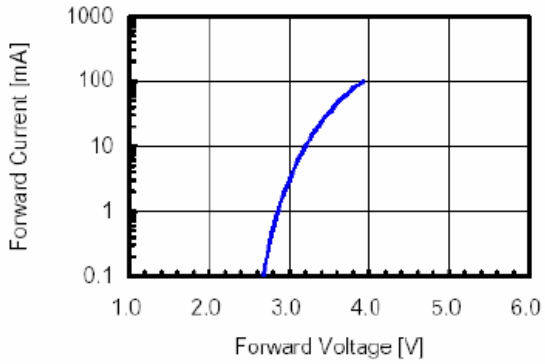


Fig 2. Relative Intensity vs. Forward Current

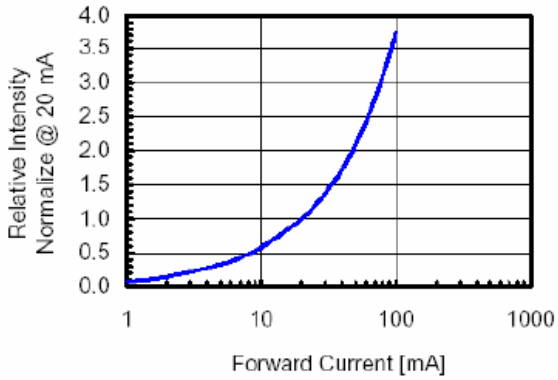


Fig 3. Forward Voltage vs. Temperature

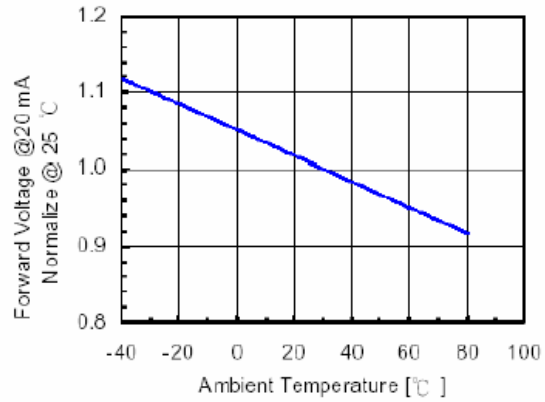


Fig 4. Relative Intensity vs. Temperature

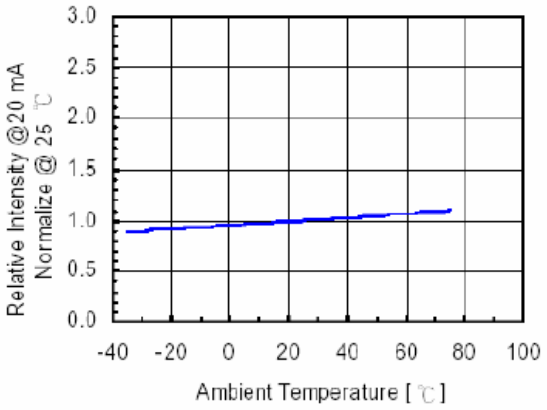
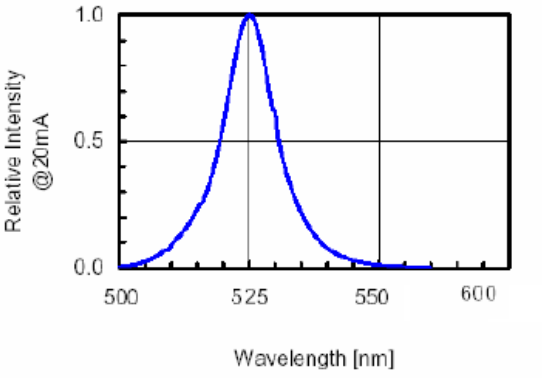


Fig 5.Relative Intensity vs. Wavelength



•Soldering:

1. Manual of soldering

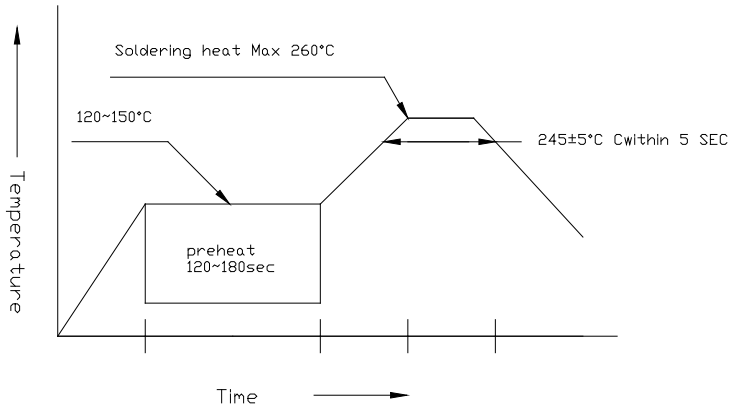
The temperature of the iron tip should not be higher than 260 ℃and

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)

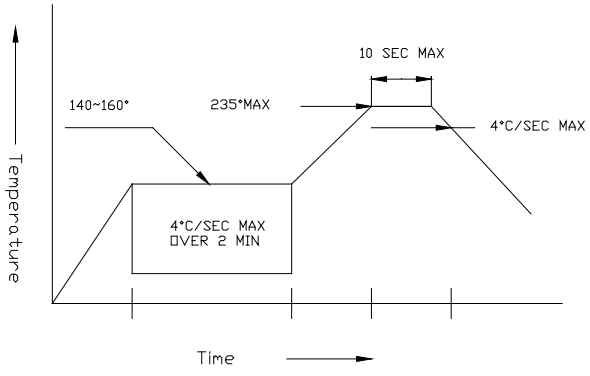


3. Reflow Soldering

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