

YETDA INDUSTRY LTD.

**5mm White Color LED Lamps
S518TG4G**

- * 5mm Pure Green color with InGaN Dice.
- * Encapsulated with Water Clear Package with 2 leads.

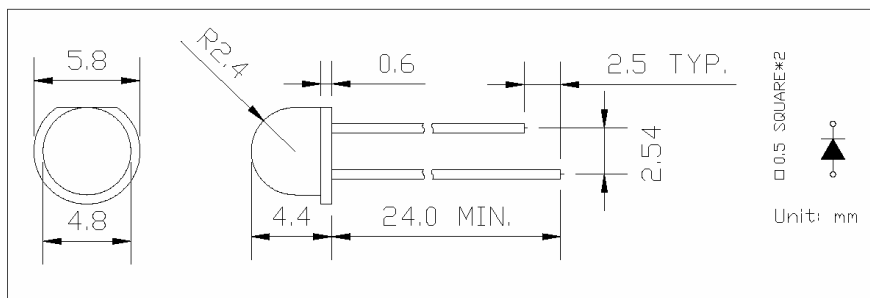
Absolute Maximum Ratings : (Ta=25°C)

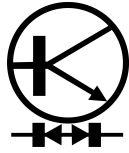
Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	PD	70	mw
Reverse Voltage	VR	5	V
Average Forward Current	LAF	25	mA
Peak Forward Current (Duty=0.1,1KHZ)	IPF	80	mA
Operatating Temperature Range	T _{OPR}	-20°C to +70	°C
Storage Temperature Range	T _{STG}	-40°C to +80	°C
Lead Soldering Temperature { 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	2.8	3.0	3.3	V
Reverse Current	V _R = 5V	I _R		2.5	5	uA
Luminous Intensity	I _F = 20mA	I _v	1000	1200	1400	mcd
Dominant Wavelength	I _F = 20mA	λ _d	513	515	518	nm
Viewing Angle	I _F = 20mA	2θ 1/2		160		deg

Item: 518





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Fig 1. Forward Current vs. Forward Voltage

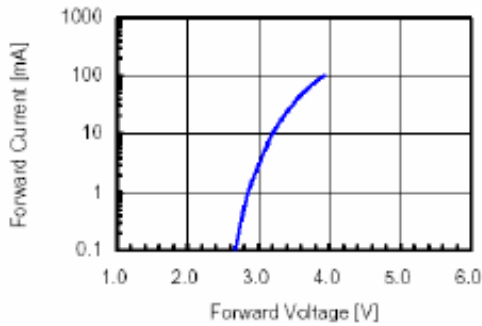


Fig 2. Relative Intensity vs. Forward Current

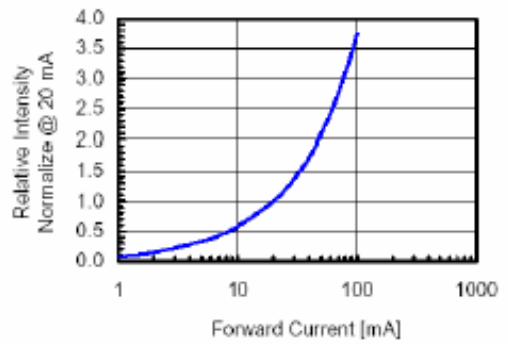


Fig 3. Forward Voltage vs. Temperature

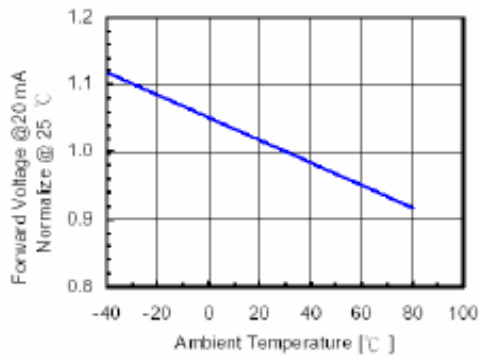


Fig 4. Relative Intensity vs. Temperature

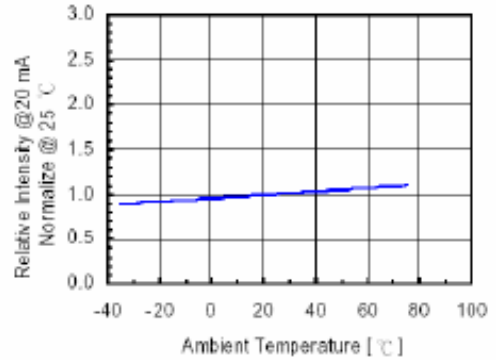
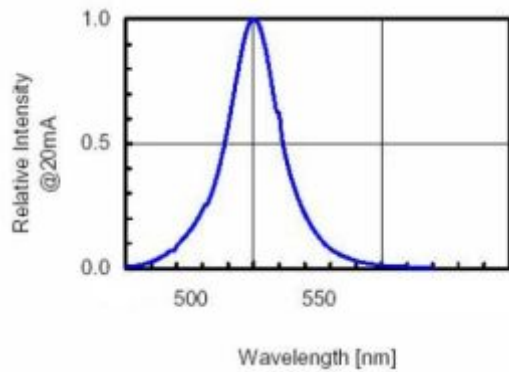
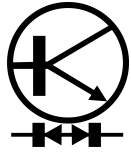


Fig 5. Relative Intensity vs. Wavelength





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•Soldering:

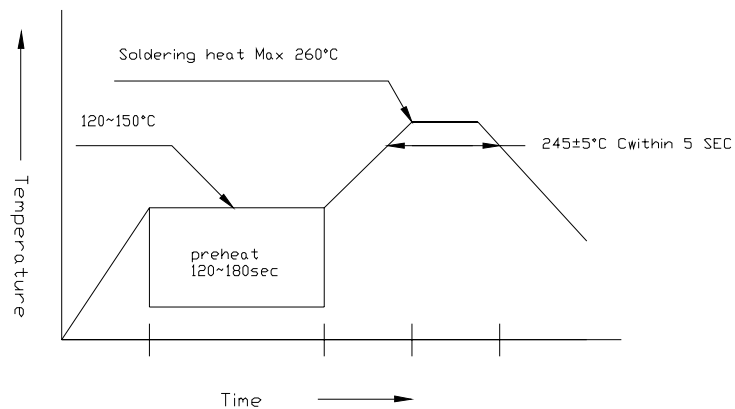
1. Manual of soldering

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: $120^{\circ}\text{C} \sim 150^{\circ}\text{C}$ within 5 sec. 260°C (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