



# YETDA INDUSTRY LTD.

## 4.8mm White Color LED Lamps S518TW2C

4.8 mm with InGaN dice ◦

Encapsulated with White diffused (Milky) package ◦

Long Leads ◦

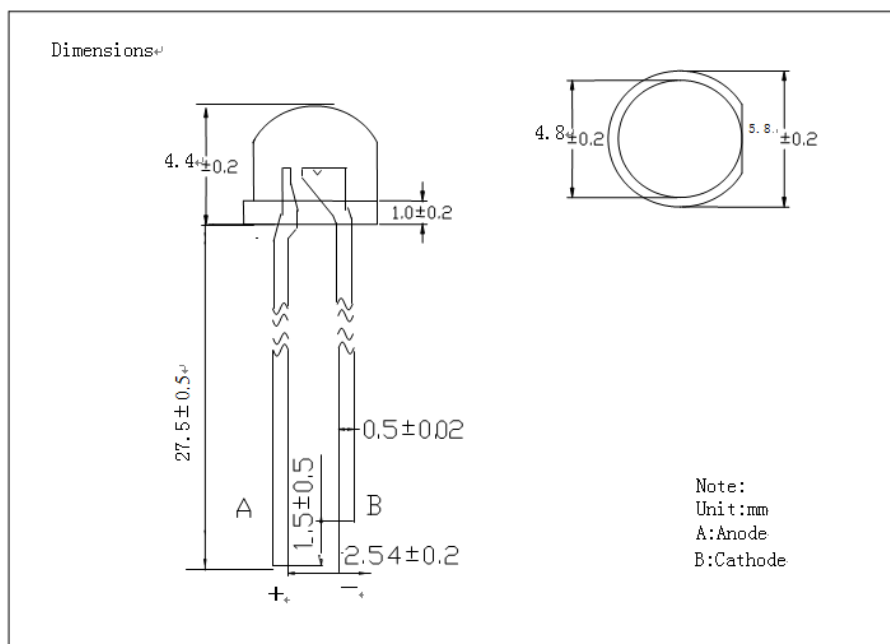
### Absolute Maximum Ratings : ( Ta=25°C )

Parameter	Maximum Rating	Unit
Peak Forward Current	40	mA
Continuous Forward Current	20	mA
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-50°C to +100°C	
Lead Soldering Temperature	260°C for 3 seconds 1.6mm(0.063 inch) from body	

### Electro-Optical Characteristics ( Ta = 25°C )

Parameter Radiant	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	I <sub>F</sub> = 20mA	V <sub>F</sub>	2.8	3.0	3.4	V
Luminous Intensity	I <sub>F</sub> = 20mA	I <sub>v</sub>		1800		mcd
Chromaticity coordinate	I <sub>F</sub> = 20mA	X	0.29	0.30	0.31	
		Y	0.29	0.30	0.31	
Color temperature	I <sub>F</sub> = 20mA	CT	7000	8000	9000	K
Reverse current	V <sub>R</sub> = 7V	I <sub>R</sub>			1	μA

### Package





# YETDA INDUSTRY LTD.

## Typical Electro-Optical Characteristics Curve:

Fig 1. Forward Current vs. Forward Voltage

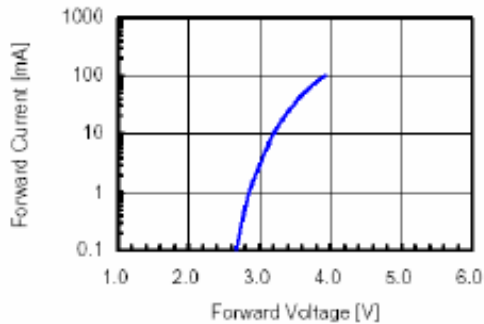


Fig 2. Relative Intensity vs. Forward Current

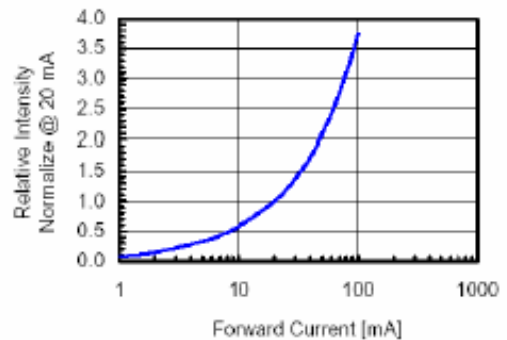


Fig 3. Forward Voltage vs. Temperature

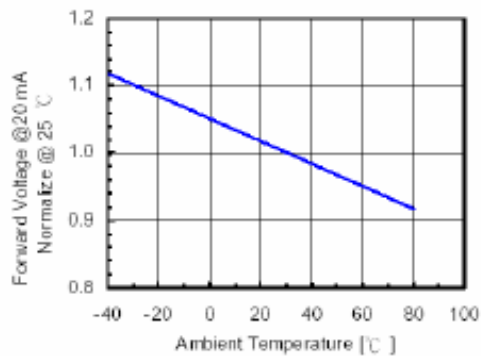


Fig 4. Relative Intensity vs. Temperature

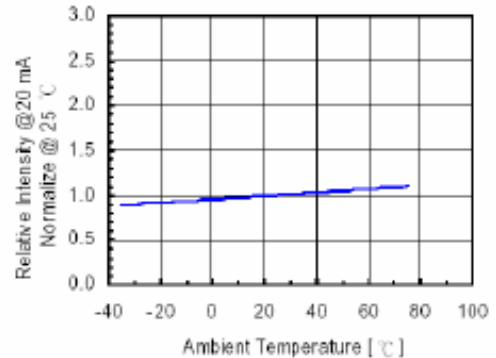


Fig 5. Relative Intensity vs. Wavelength

### •Soldering:

#### 1. Manual of soldering

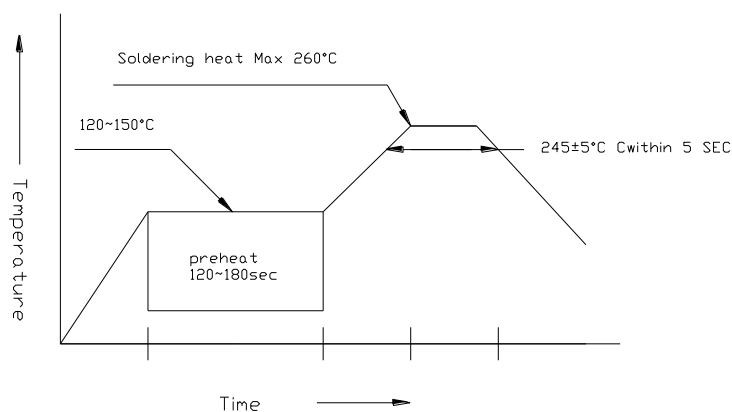
The temperature of the iron tip should not be higher than 260°C and

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)





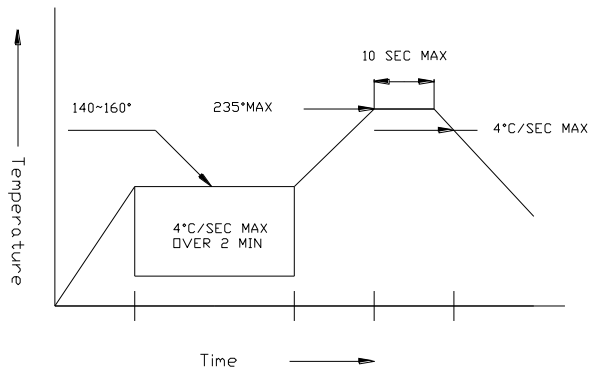
# YETDA INDUSTRY LTD.

## 3. Reflow Soldering

Preheating:  $140^{\circ}\text{C} \sim 160^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , within 2 minutes.

Operation heating:  $235^{\circ}\text{C}$  (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