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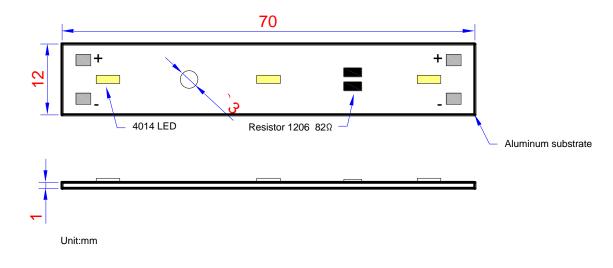
Assemble



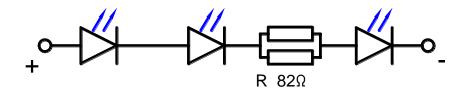
ΤΟΥΟ



## **Physical Dimensions**



# **Circuit Diagram**





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P/N: TY-7012AL-4014CW

Assemble

# **♦** Maximum Ratings(Ta=25°C)

Item	Symbol	Maximum	Unit	
Input Voltage	Vin	13.5	V	
Power Dissipation	PD	0.8	W	
Forward Current	I <sub>Fmax</sub>	65	mA	
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	$I_{FP}$	100	mA	
Operating Temperature Range	$\mathrm{T}_{\mathrm{opr}}$	-30 to +80	${\mathbb C}$	
Storage	$\mathrm{T}_{\mathrm{stg}}$	-40 to +100	$^{\circ}$	
Handmade Soldering Temperature	Tsol	Max. 350°C for 5sec Max.		
Electrostatic discharge (HBM)	ESD	2000V		

#### **♦** Electrical/Optical Characteristics(Ta=25°C)

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Current	IF	VF=12Vdc		60		mA
Luminous Flux	Φ	VF=12Vdc		62		lm
Color Temperature	ССТ	V <sub>F</sub> =12Vdc	5000		6000	K
Color Rendering Index	CRI	VF=12Vdc		70		
Viewing Angle	201/2	VF=12Vdc		120		Deg

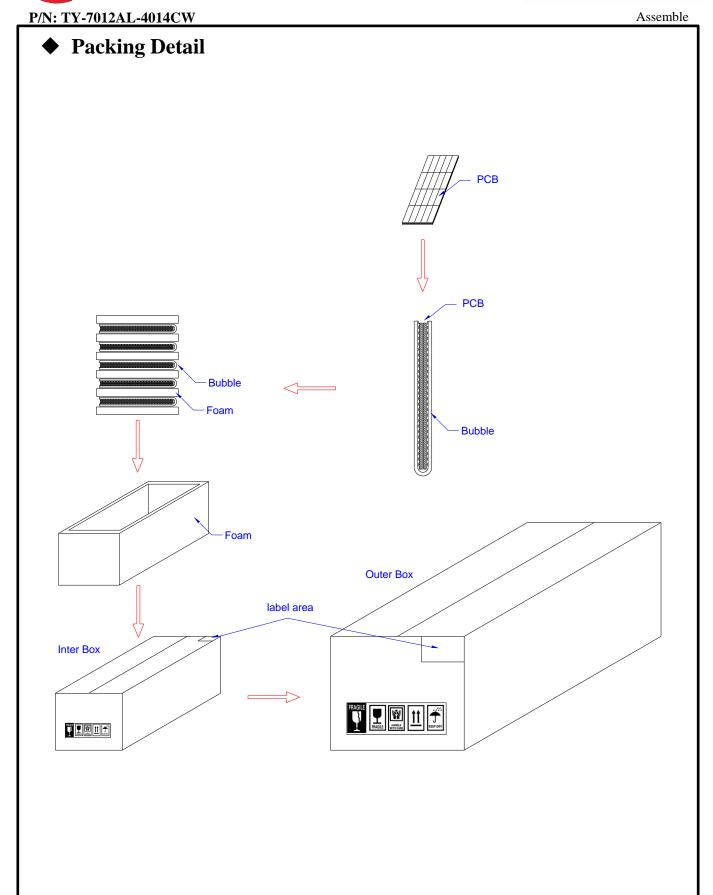
#### NOTES:

- 1.All dimensions are in millimeter;
- 2. Tolerance is  $\pm 0.25$  mm unless other specified;
- 3. Luminous intensity testing tolerance is  $\pm 10\%$ ;
- 4.Dominant Emission Wavelength testing tolerance is  $\pm 5\%$ ;
- 5. Specifications are subject to change without notice



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#### Precautions

#### 1. Cautions of use

- •Products run off at high voltage.
- •Long time exposure to sunlight or UV may discolor the lens.
- •Do not use adhesives to attach the LED that outgas organic vapor.
- •Do not use together with the materials containing Sulfur.
- •Soldering to board so as not to create a short between different trace pat-terns.
- •Do not assemble in conditions of high moisture and/or oxidizing gas such as Cl, H2S,NH3,SO2,NOX,etc.

#### 2. Handing of silicone resin for LEDs

- •Do not touch the silicone resin area with sharp objects such as pincette (tweezers).
- •Finger prints on silicone resin area may affect the performance.
- •Store LEDs in covered containers to prevent dust accumulation as this may affect perform-ance.
- •Excessive force more than 3000PA to the silicone lens can result in fatal or permanent damage to LEDs.
- •Do not cover the silicone resin area with any other resins such as epoxy, urethane, etc

#### 3. Storage

- •Do not impact or place pressure on this product because even a small amount of pressure can damage the product. The product should not be placed in high temperatures, high humidity or direct to sunlight.
- •The devices should be stored in the anti-static bag.
- •If the anti-static bag has been opened, re-seal preventing air and moisture from being present in the bag.