



TX-BGRWY10B140-001D

PRODUCT SPECIFICATION

Approved by:

Checked by:

Prepared by:

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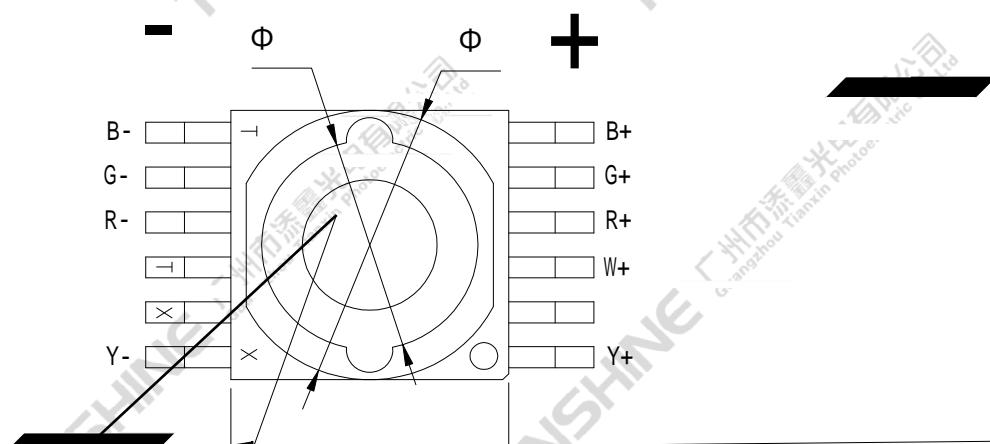
Features:

- Excellent Transiting Heat from LED Chip Operating under 500mA
- High Luminous Output
- No UV

Typical purpose:

- Portable Flashlight
- Garden lighting
- General Lighting

Package Dimensions:



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Notes:

- 1.This product is in the White light for thermoelectric integrated chip.
- 2.All dimensions are in millimeters (inches).
3. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

Part NO.	Chip Material					Lens Color	Source Color
	Blue	Green	Red	White	Yellow		
TX-BGRWY10B140-001D	GalN	GalN	AlGalnP	GalN	AlGalnP	Water Clear	Blue & Green & Red & White & Yellow

Absolute Maximum Ratings at Ta=25

Parameter	Symbol	MAX.	Unit	
LED Junction Temperature	T _j	150		
Power Dissipation	P _D	B	1800	mW
		G	1800	
		R	1300	
		W	1800	
		Y	1300	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I _{FP}	1000	mA	
Continuous Forward Current	I _F	500	mA	
Reverse Voltage	V _R	5	V	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V	
Operating Temperature Range	T _{opr}	-40 to +70		
Storage Temperature Range	T _{spr}	-40 to +100		

Notes:

1. Specifications are subject to change without notice.
2. Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
3. The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
4. Precautions for ESD:
 STATIC SHIELD ~~Electromagnetic~~ and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

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Notes:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Flux is measured with an accuracy of $\pm 15\%$.
5. Forward voltage is measured with an accuracy of $\pm 0.15V$.

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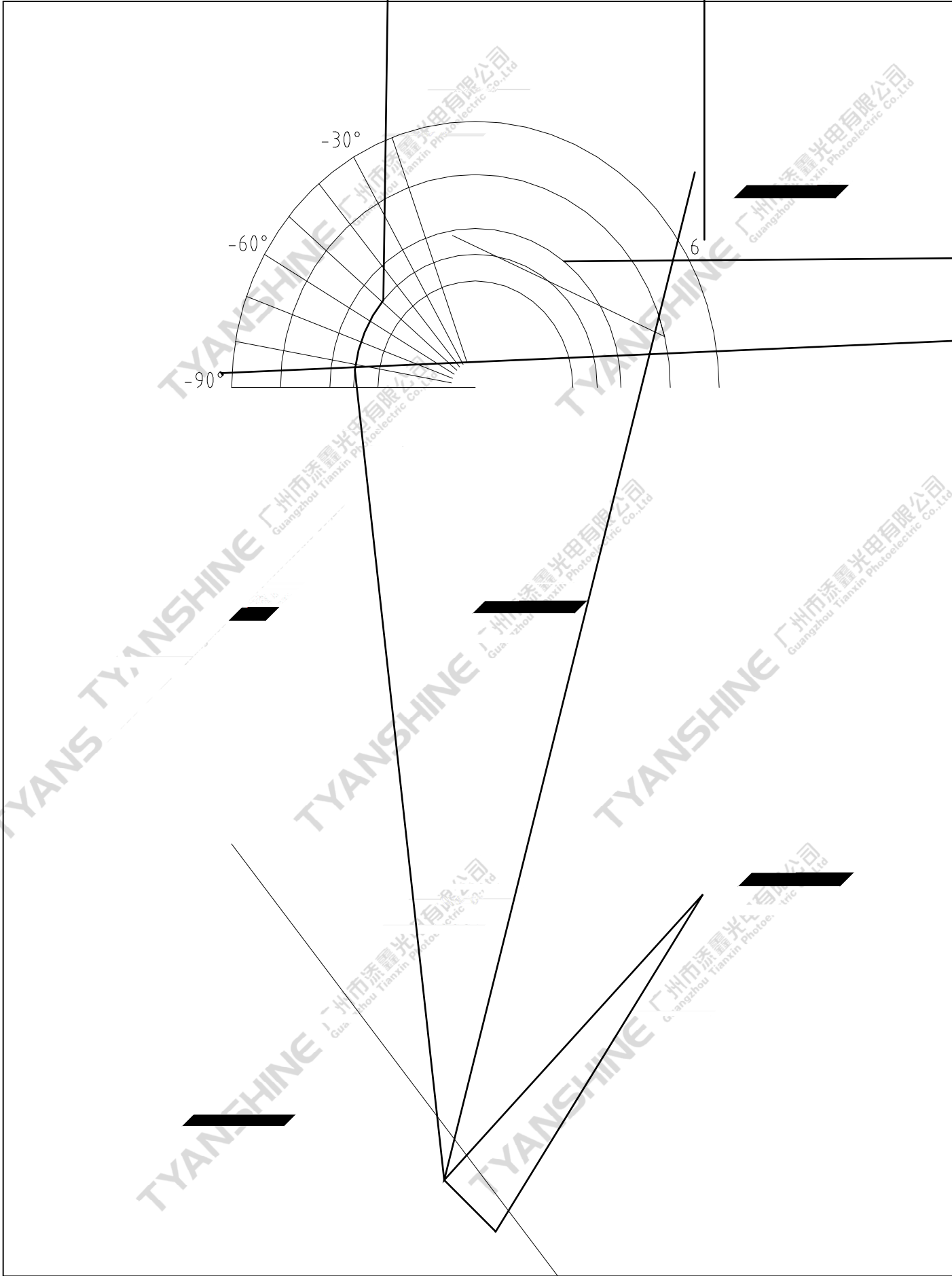
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PRECAUTION IN USE

Storage

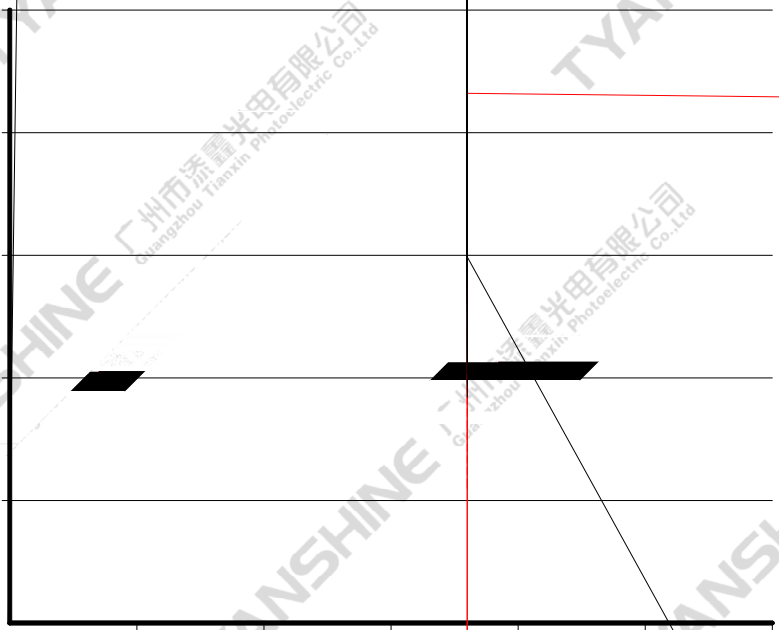
Recommended storage environment

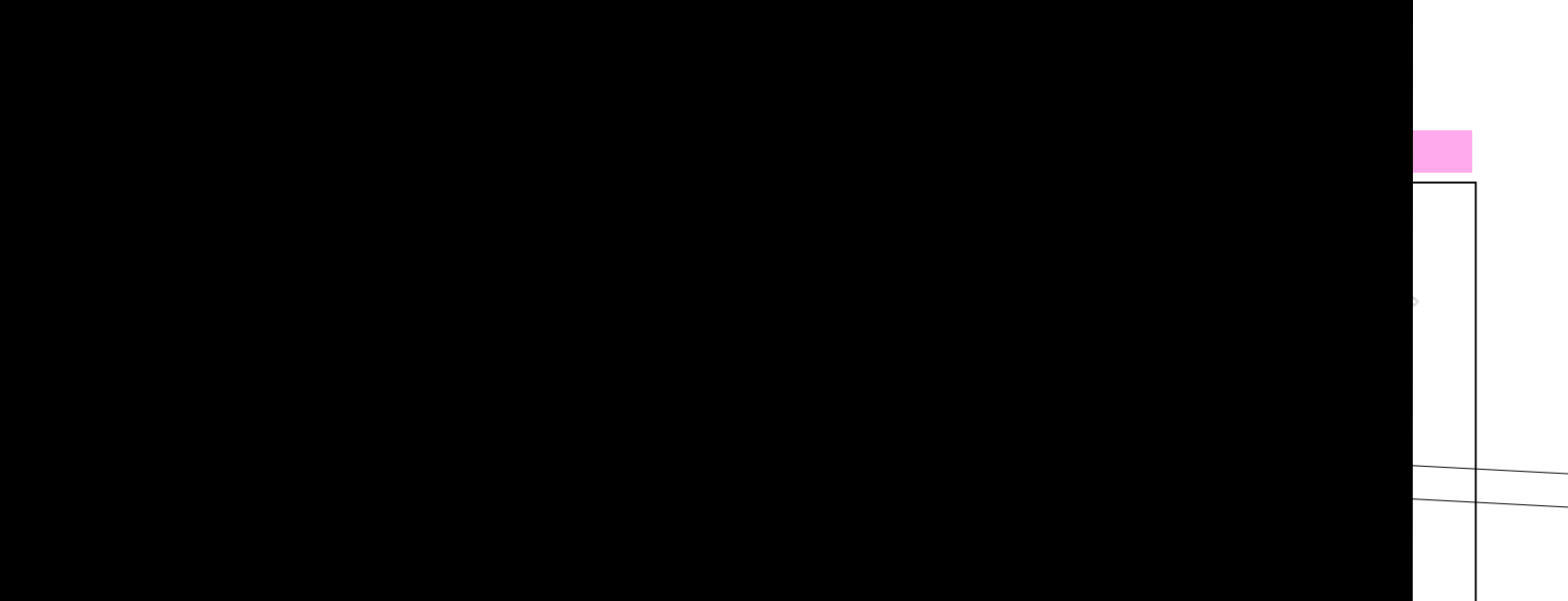
Temperature: 5 ~ 30 (41oF ~ 86oF)

Humidity: 60% RH Max.

Soldering

Use the conditions shown to the under figure.





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