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PRODUCT SPECIFICATION

MANSHINE

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Approved by:		Checked	by:	Prepare	ed by:
Part No.	TX-B3A140-002G	Spec No.	WKF-BA3005	Page	1 of 9

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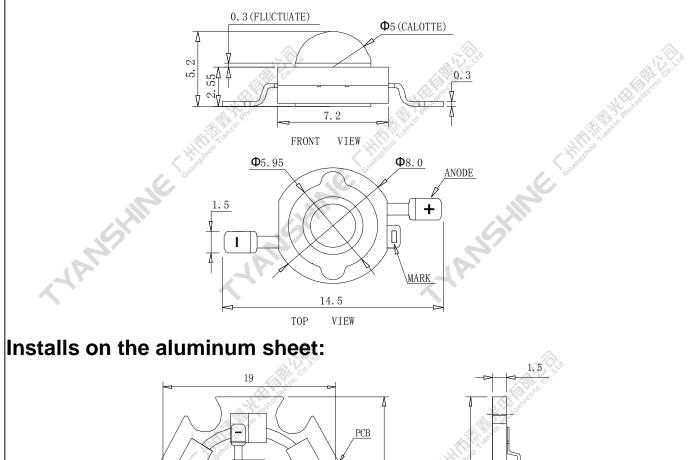
Features:

- Excellent Transiting Heat from LED Chip Operating under 700mA
- High Luminous Output
- No UV

Typical purpose:

- Portable Flashlight
- Garden lighting
- General Lighting

Package Dimensions:



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Version:1.0

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Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

Part NO.	Lens Color	Emitting Color
TX-B3A140-002G	Water Clear	Blue

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	MAX.	Unit
LED Junction Temperature	Tj	150	°C
Power Dissipation	PD	2660	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFP	1000	mA
Continuous Forward Current	IF K	700	mA
Reverse Voltage	VR	5	liftan V
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Operating Temperature Range	Topr	-30 to +70	°C
Storage Temperature Range	T _{spr}	-40 to +100	

Notes:

- 1. Specifications are subject to change without notice.
- 2. The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- 3. Precautions for ESD:

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STATIC SHIELD Electricity 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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Characteristics at If=700mA ,Vr=5V (Ta=25°C):

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Parameter	Symbol	Values			Units
Falameter	Symbol	Min. Typ.		Max.	Onits
Luminous Flux	φν	40	50		lm
Viewing Angle at 50 % IV	2 θ _{1/2}	-	140		Deg
Peak Emission Wavelength	λρ	455	460	465	nm
Dominant Wavelength	λd	459	463	464	nm
Spectral Line Half-Width	Δλ	25	30	35	nm
Forward Voltage	Vf	3.0	3.4	3.8	V
Reverse Current	I _R	_		10	μA
Thermal Resistance Junction to Case	Rθ _{J-C}	AL Cont	25		K/W
Temperature Coefficient of Forward Voltage	V∆F/T	thoto decition	-2		mV/℃
	S. 1912 S			1.43	

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 ±15%.

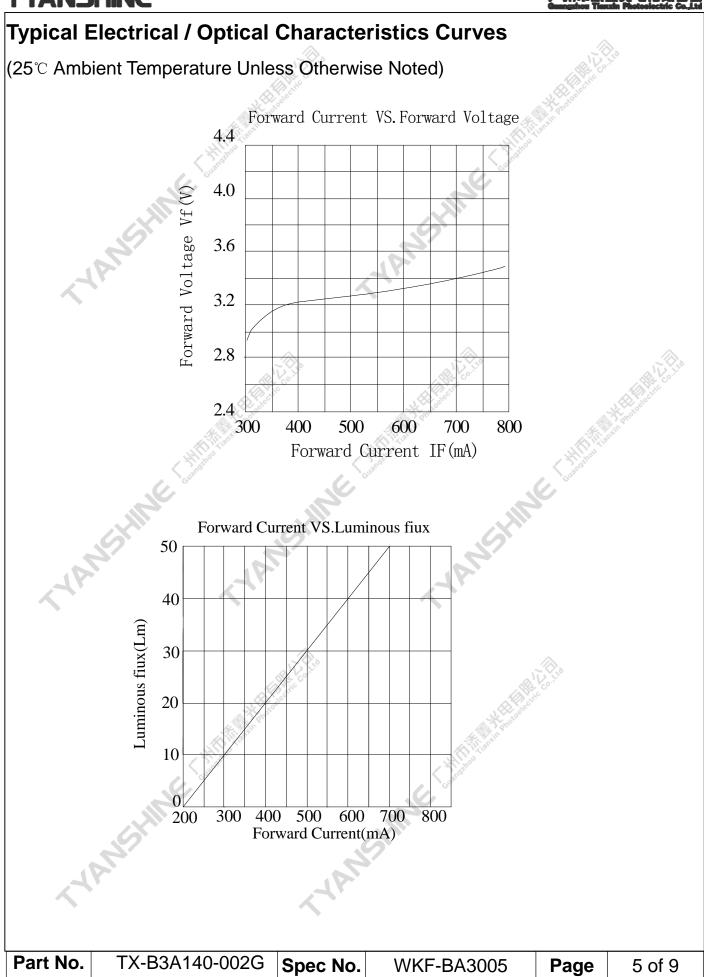
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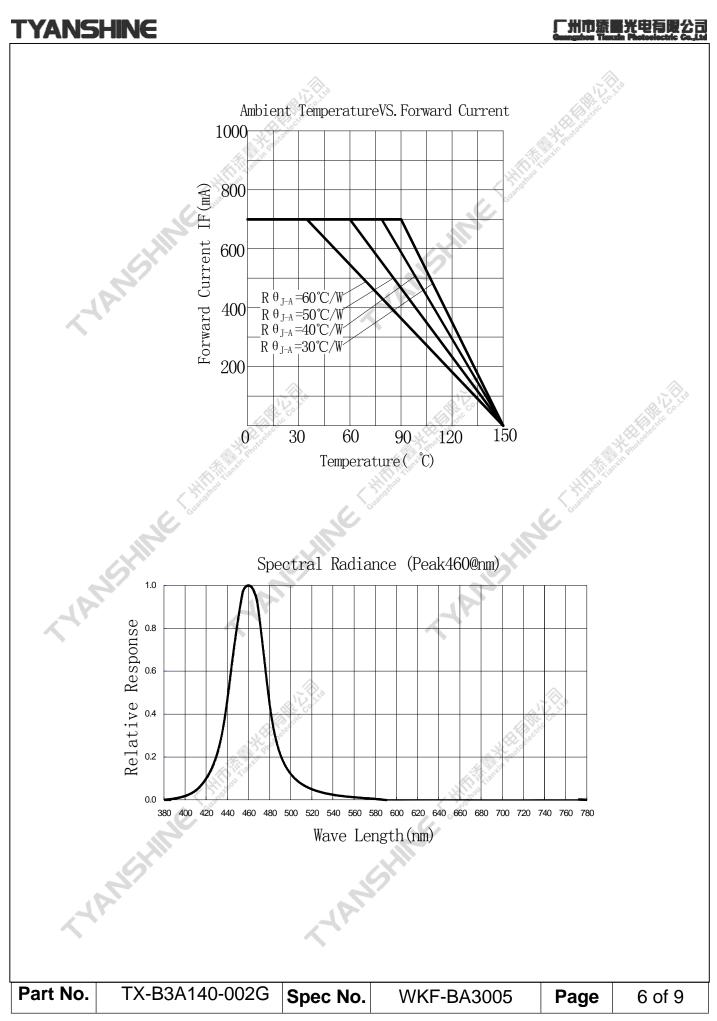
5. Forward voltage is measured with an accuracy of ± 0.15 V.

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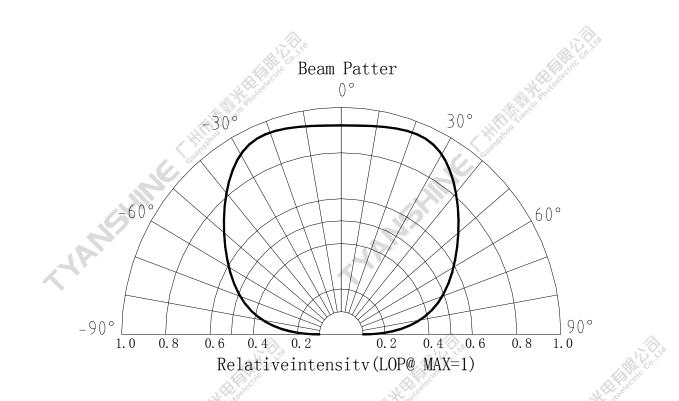






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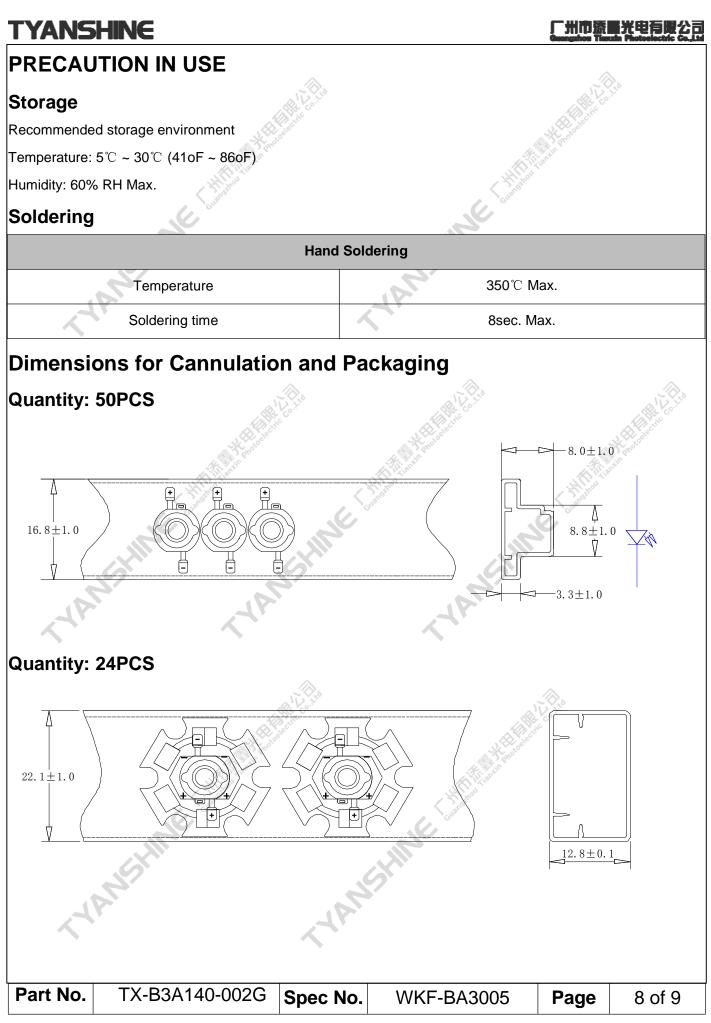


Notes:

1.20 1/2 is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value. 1.

 $2 \text{ View angle telerance is} +5^{\circ}$

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Notes:

1. All dimensions are in millimeters (inches).

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- 2. Tolerance is ± 2.0 mm (0.08") unless otherwise noted.
- 3. Product is packaged with silica gel to protect the light-emitting zone. Please avoid the light-emitting area from being pressed, stressed, rubbed, come into contact with sharp metal part which would damage the product.

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