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TANSHINE

# TX-RBWG8B120-001A

# **PRODUCT SPECIFICATION**

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Approved by:		Cł	necked b	y:	Prepare	d by:
Part No.	TX-RBWG8B120-0	01A	Spec No.	WKF-BB8007	Page	1 of 9

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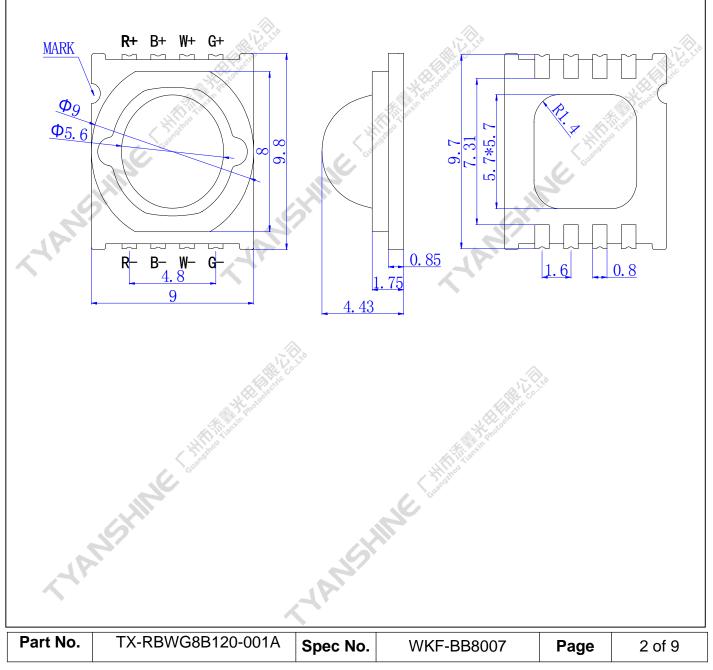
## Features:

- 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.All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise noted.

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Part NO.	Chip M			al		Lens Color	So	urce Color	
	Red	Blue	W	nite	Green		Red & True Blue & White& Green		
TX-RBWG8B120-001	AlGaInP	GalnN	Ga	InN	GalnN	Water Clear			
Absolute Maximum R	Absolute Maximum Ratings at Ta=25								
JAL				AL.					
Paramete	er		Syn	nbol		MAX.		Unit	
LED Junction Temperature			Tj			135		°C	
	all.	0.1		R	J.C.	1300			
Deven Directo alta di devita			P <sub>D</sub>	В	C. C. CO.	1800		mW Contra	
	Power Dissipation			W	per cele	1800		mVV	
i Bu	lant			G		1800		A antin Pro	
	Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)			IFP				mA	
Continuous Forwar	Continuous Forward Current			IF		500		mA	
Reverse Voltage			V <sub>R</sub>			5		V	
Electrostatic Discharge T	Electrostatic Discharge Threshold (ESD)			ESD		2000		V	
Operating Temperature Range			Т	T <sub>opr</sub>		-30 to +70		°C	
Storage Temperatu	re Range		T <sub>spr</sub>			-40 to +80		C	

## 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:

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=500mA , Vr=5V (Ta=25°C)

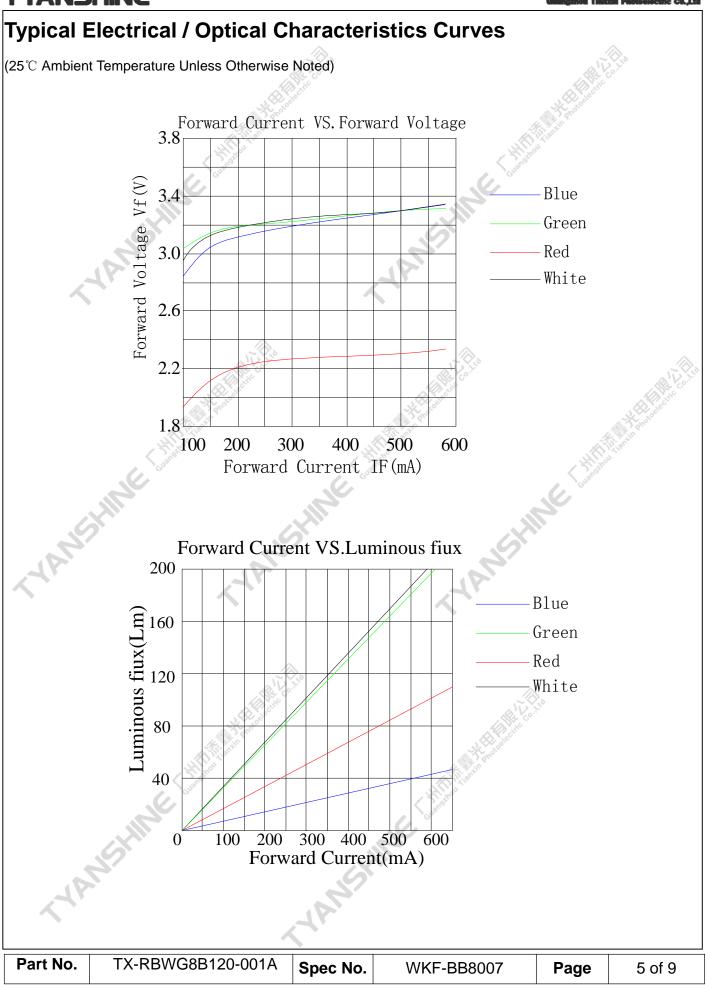
Deremater	Sumbol Emitting			Values			
Parameter	Symbol	Color	Min.	Тур.	Max.	Units	
	A section	R	60	85		lm	
	Renot C	В	25	35	S one		
Luminous Flux	φv	W	140	175	_		
< Martine		G	130	170	—		
		R	0	120	—		
Viewing Angle at 50 % IV	<b>20</b> <sub>1/2</sub>	В	<u></u>	120	—	Dog	
viewing Angle at 50 % IV	201/2	W		120	—	Deg	
S		G	<u> </u>	120	—		
		R	620	625	630		
Peak Emission Wavelength	λр	В	450	452.5	455	nm	
		G	510	515	520		
Dominant Wavelength	λd	R	618	622	636	nm	
		В	453	457	463		
		G	520	525	530		
Correlated Colour Temperature	ССТ	W	5500	6500	7500	K	
54-99-35 <sup>-61</sup>		R	<sup>moto</sup> 15	20	25	nm	
Spectral Line Half-Width	Δλ	Billion	15	20	25		
Spectral Line Hall-Width		W	15	20	25		
	(	Gui G	25	30	35		
		R	2.0	2.3	2.6	V	
Forward Voltage		В	3.0	3.3	3.6		
Forward Voltage	Vt	W	3.0	3.3	3.6		
121	5	G	2.8	3.2	3.6		
Reverse Current	I <sub>R</sub>	_	-IP	_	10	μA	
hermal Resistance Junction to Case	Rθ <sub>J-C</sub>		<u> </u>	2.8		K/W	
Temperature Coefficient of Forward Voltage	V∆F/T	_		-2		mV/℃	

#### Notes:

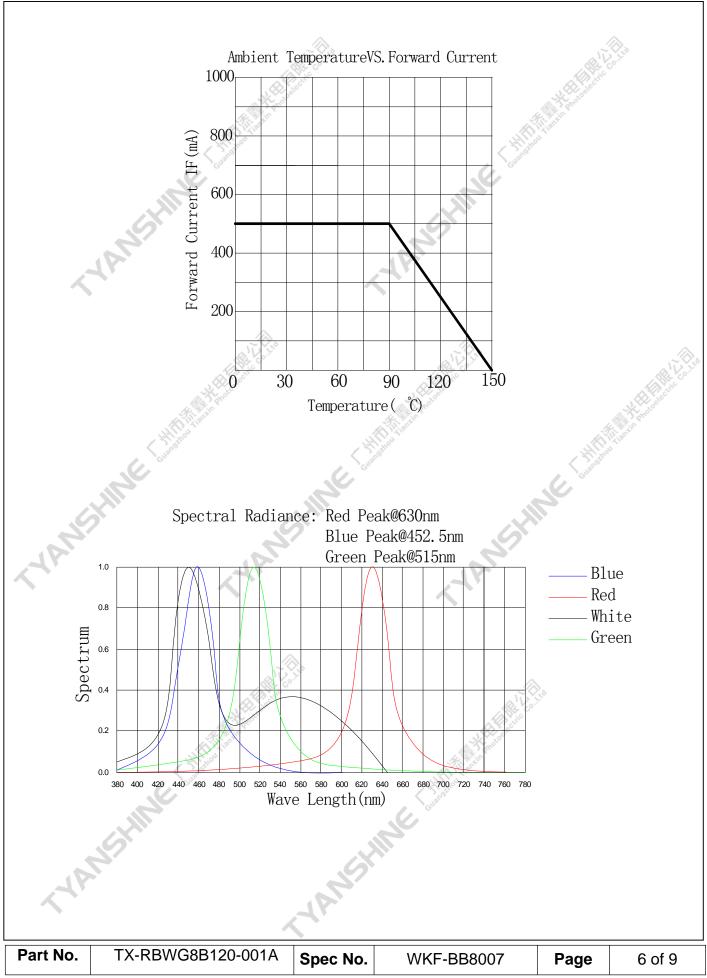
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $2.\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3. The dominant wavelength ( $\lambda$ d) is derived from the CIE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

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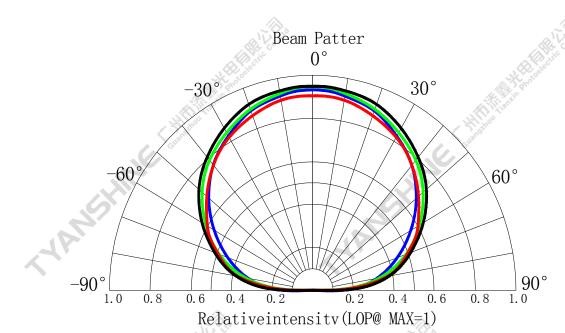
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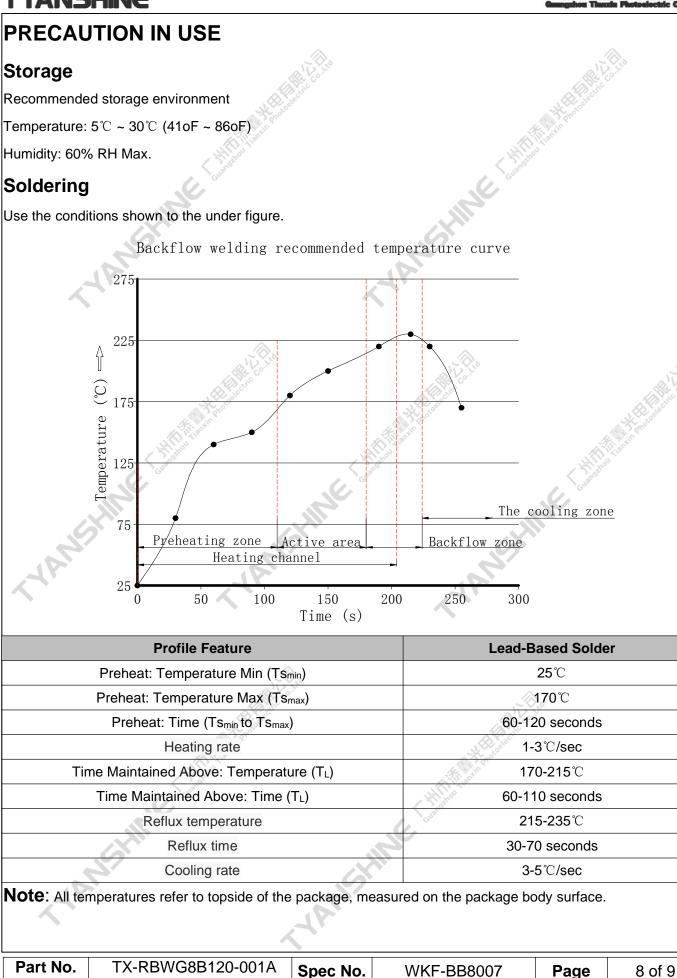


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Notes:	Cont Cont		We contro		Re Konto
1.2⊖ 1/2 is the	e off axis angle from lamp center	line where the	e luminous intensity is 1/2	of the peak v	alue.
	olerance is±5°.	HINE Com	Structure C	AC Summer	A tenine
THA.		ANGH	the comparison of the second	l'o	
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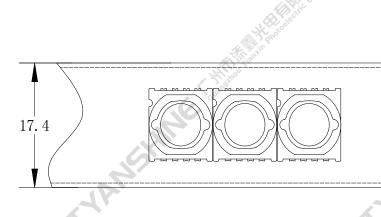
 $8.0 \pm 1.0$ 

9.8

3.5

## Dimensions for Cannulation and Packaging

#### Quantity: 40PCS



## Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 2.0$  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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