



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. Thermoelectric integrated White chip packaged in this product.

2.All dimensions are in millimeters (inches).

3. Tolerance is ±0.25 mm (0.01") unless otherwise noted.

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Part NO.		Chip N	Material		Lens Color	Sou	urce Color	
	Red	Blue	White	Green	Water	Red &	& True Blue &	
TX-RBWG8B120-001A	AlGaInP	GalnN	GalnN	GalnN	Clear		White& Green	
Absolute Maximum Rati	ngs at Ta=	25℃			2	ryan.		
Parameter			Symbol	I MAX.			Unit	
LED Junction Temperature			Tj	25	150		°C	
			R		1300			
			В	5 ⁰	1800		m	
Power Dissipation			P _D W		1800 1800		mW	
		$\langle \mathbf{e} \rangle$	G					
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)		dth)	I _{FP}				mA	
Continuous Forward Current		IF		500		mA		
Reverse Voltage		V _R		5		V		
Electrostatic Discharge Threshold (ESD)		ESD		2000		V		
Operating Temperature Range		T_{opr}		-40 to +70		°C		
Storage Temperatu	ire Range		T _{spr}		-40 to +100		°C	

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 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=5	5V (Ta=25°	C)	Š	A			
Parameter	Symbol	Emitting		Values		Units	
Faranteter	Symbol	Color	Min.	Тур.	Max.		
		R	⁶⁰	75			
Luminous Flux	φv	BO	25	35		Im	
		W	140	175	—		
		G	135	170		\mathbf{X}^{*}	
and the second s		R		120	$\odot - \checkmark$		
Viewing Angle at 50% IV	2 θ _{1/2}	В		120		Deg	
	=01/2	W		120	Sustin.	Deg	
		G		120	An		
4		R	620	625	630	nm	
Peak Emission Wavelength	λр	В	447	453	457		
×517		G	510	515	520		
Dominant Wavelength	λd	R	618	622	626	nm	
		В	453	457	463		
		Go	520	524	529		
Correlated Colour Temperature	ССТ	WO	5500	6500	7500	KO	
		R	15	20	25	000	
Spectral Line Half-Width	Δλ	В	15	20	25	nm	
Spectral Line Han Width		W	15	20	[©] 25		
TIAN		G	25	30	35		
	V _f	R	2.0	2.3	2.6	- V	
Forward Voltage		В	3.0	3.3	3.6		
Torward voltage		W	3.0	3.3	3.6		
		G	3.0 ×	3.3	3.6		
Reverse Current	I _R	—		—	10	μΑ	
Thermal Resistance Junction to Case	$R\theta_{J-C}$	_	Ste <u>Cr</u>	2.8		K/W	
Temperature Coefficient of Forward Voltage	V△F/T	27000		-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 (λd) 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 $\pm 0.15V$.

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Dimensions for Cannulation and Packaging



Notes:

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- 1. All dimensions are in millimeters (inches).
- 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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	Photoelectricity	200	stoelectricity		×10818
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 8.0 ± 1.0

9.8

3.5