TX-BRWG1A140-301

PRODUCT SPECIFICATION

Approved by: Checked by: Pi

Prepared by:

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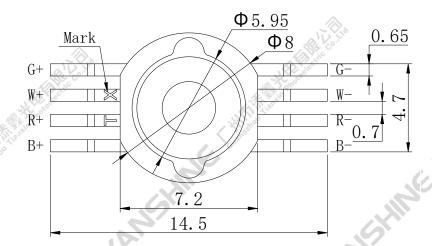
Features:

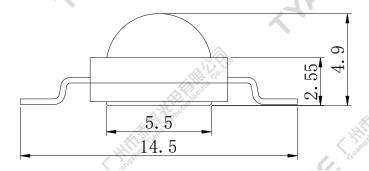
- ◆ Excellent Transiting Heat from LED Chip Operating under 300mA
- ◆ High Luminous Output
- ♦ No UV

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 ±0.25 mm (0.01") unless otherwise noted.

Part NO.	Chip Material				Lens Color	Source Color
TX-BRWG1A140-301	Blue	Red	White	Green	Water	Blue & True Red &
	GalnN	AlGaInP	GalnN	GalnN	Clear	White & Green

Absolute Maximum Ratings at Ta=25℃

Parameter		ıbol	MAX.	Unit	
LED Junction Temperature		j	150	$^{\circ}$ C	
		В	1050		
Power Dissipation		R	780	mW	
Fower Dissipation	P _D	W	1080	IIIVV	
3.H. Beite		J.G.	1050	The second	
Peak Forward Current		A Thou Th	1000	mA	
(1/10 Duty Cycle, 0.1ms Pulse Width)		P	1000	A Philips III (
Continuous Forward Current		=	300	mA	
Reverse Voltage		R	5	V	
Electrostatic Discharge Threshold (ESD)		SD.	2000	V	
Operating Temperature Range		ppr	-30 to +70	$^{\circ}$	
Storage Temperature Range		pr	-40 to +100		
Lead Soldering Temperature		ol	Hand Soldering: 350℃ for 8 sec.		

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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TYANSHINE

Characteristics at If=300mA ,Vr=5V (Ta=25°C):

		1000			10								
Parameter	Symbol	Emitting	Values			Units							
Parameter	Symbol	Color	Min.	Тур.	Max.	Units							
	A Ball Toll	В	17	24	Wall Sugar	lm							
Luminous Flux	H Hillian	R	40	50	Klan —								
Luillilous Flux	Ψ	W	70	85	_								
.()	G	G	60	85	_								
		В		140	_								
Viewing Angle at 50 % IV	2θ _{1/2}	R		140	_	Dog							
viewing Angle at 50 % iv	201/2	W	32	140	_	Deg							
		G	_	140	_								
7		В	458	460	462								
Peak Emission Wavelength	λр	R	625	630	635	nm							
		G	510	515	520								
	λd	В	460	464	468	nm							
Dominant Wavelength		R	618	622	625								
♠.		G	520	525	530								
Correlated Colour Temperature	CCT	W	5500	6500	7500	K							
The state of the s	Δλ	B	15	20	25	A HA CELECUAL							
Spectral Line Half Width		R	15	20	25	nm							
Spectral Line Half-Width		W	15	20	25								
HH Hou	.0	G	25	30	35								
Change	16	В	2.9	3.2	3.5	V							
Forward Voltage		R	2.0	2.3	2.6								
Forward Voltage	Vi	W	2.9	3.2	3.5								
6		G	2.7	3.0	3.3								
Reverse Current	I _R	_	-63	<u> </u>	10	μA							
Thermal Resistance Junction to Case	Rθ _{J-C}	_	4	15		K/W							
Temperature Coefficient of Forward Voltage	V△F/T	Marker Lo	_	-2	A Paris	mV/℃							

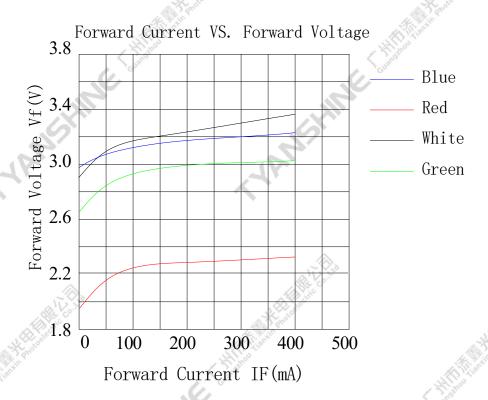
Notes:

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

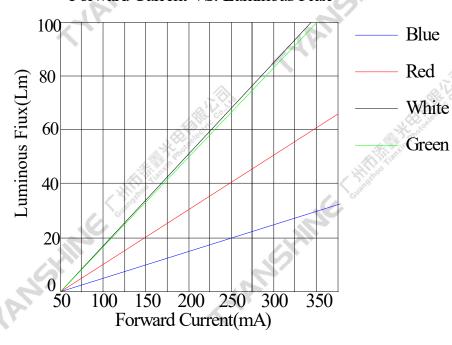
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Typical Electrical / Optical Characteristics Curves

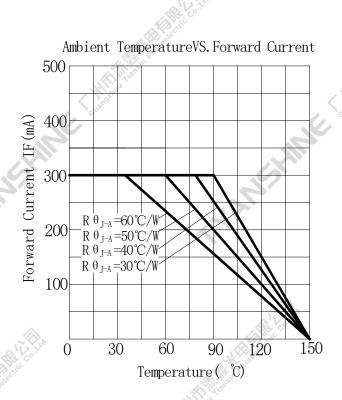
(25°C Ambient Temperature Unless Otherwise Noted)

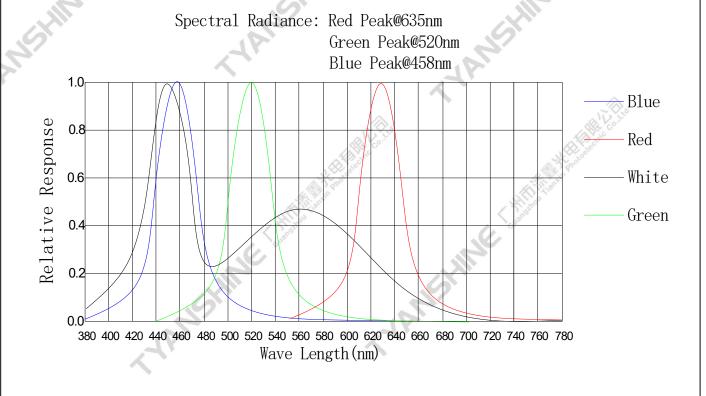






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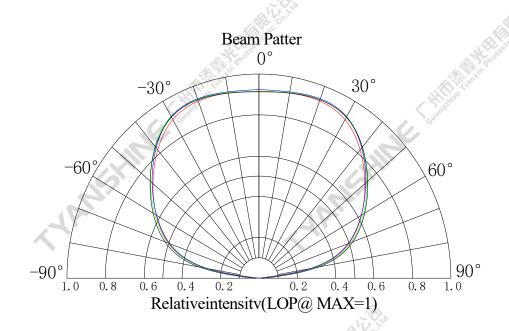
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Notes:

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

2. View angle tolerance is ±5°.

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PRECAUTION IN USE

Storage

Recommended storage environment

Temperature: 5°C ~ 30°C (41oF ~ 86oF)

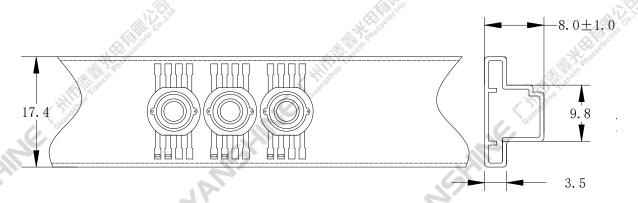
Humidity: 60% RH Max.

Soldering

Hand Soldering				
Temperature 350℃ Max.				
Soldering time	8sec. Max.			

Dimensions for Cannulation and Packaging

Quantity: 40PCS



Notes:

- 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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