

TX-RGB3A140-003K

PRODUCT SPECIFICATION

Approved by:

Checked by:

Prepared by:

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Guangzhou Tianxin Photoelectric Co., Ltd

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Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is



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Characteristics at $I_f=700mA$, $V_r=5V$ ($T_a=25^\circ C$)

Parameter	Symbol	Emitting Color	Values			Units
			Min.	Typ.	Max.	
Luminous Flux	N_v	R	115	130	—	lm
		G	195	210	—	
		B	30	40	—	
Viewing Angle at 50%IV	$2_{1/2}$	R	—	140	—	Deg
		G	—	140	—	
		B	—	140	—	
Peak Emission Wavelength	p	R	625	630	635	nm
		G	510	515	520	
		B	445	448	450	
Dominant Wavelength	d	R	620	622	625	nm
		G	520	523	525	
		B	452	455	463	
Spectral Line Half-Width	Δ	R	15	20	25	nm
		G	25	30	35	
		B	15	20	25	
Forward Voltage	V_f	R	2.0	2.3	2.6	V
		G	3.0	3.3	3.6	
		B	3.0	3.3	3.6	
Reverse Current	I_R	—	—	—	10	μA
Thermal Resistance Junction to Case	R_{J-C}	—	—	10	—	K/W
Temperature Coefficient of Forward Voltage	V_f/T	—	—	-2	—	mV/°C

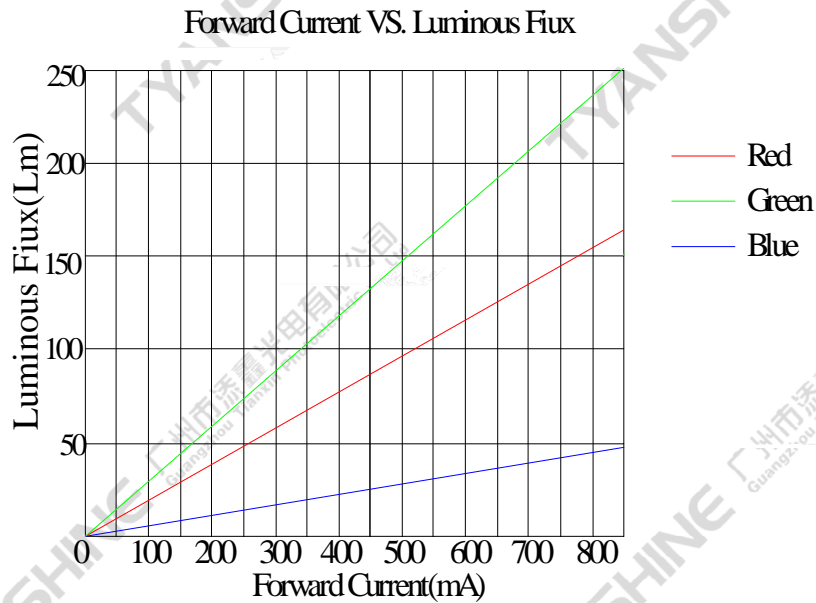
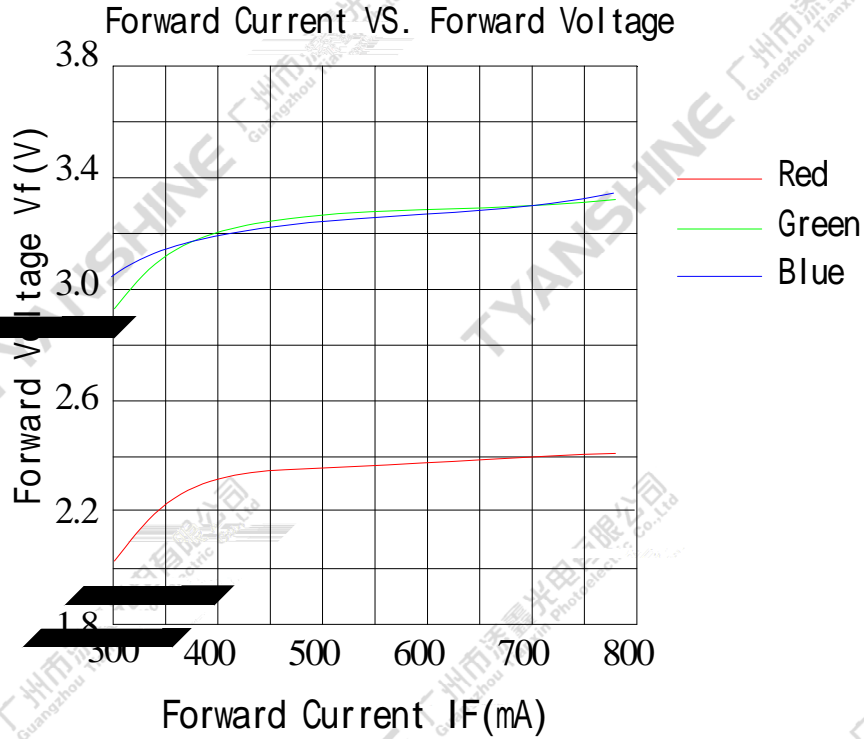
Notes:

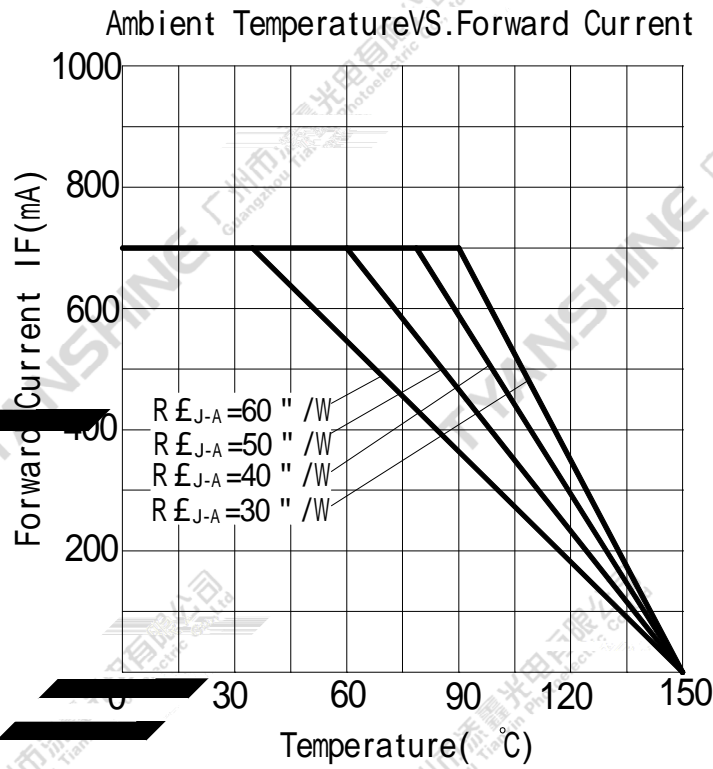
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- The dominant wavelength (d) is derived from the CIE chromaticity diagram and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

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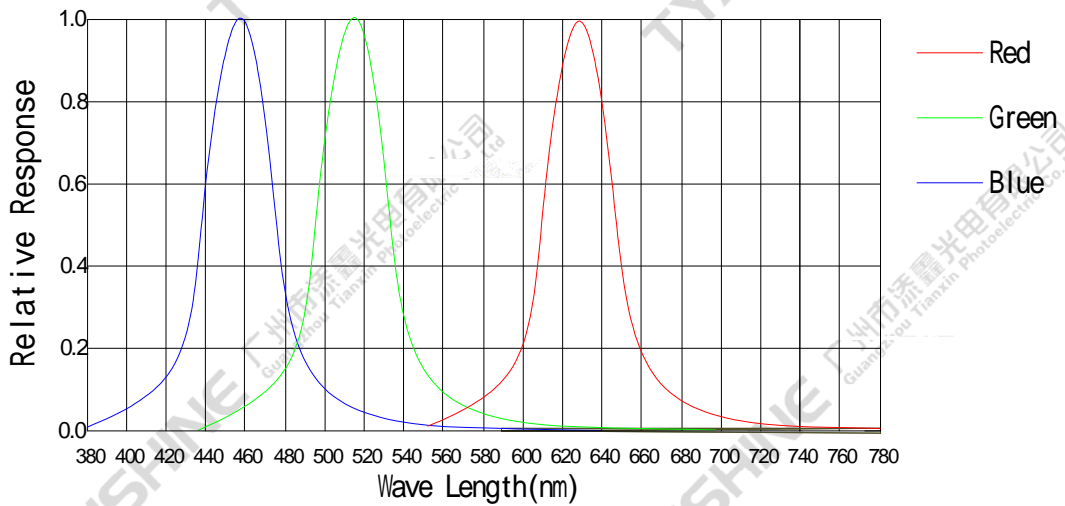
Typical Electrical / Optical Characteristics Curves

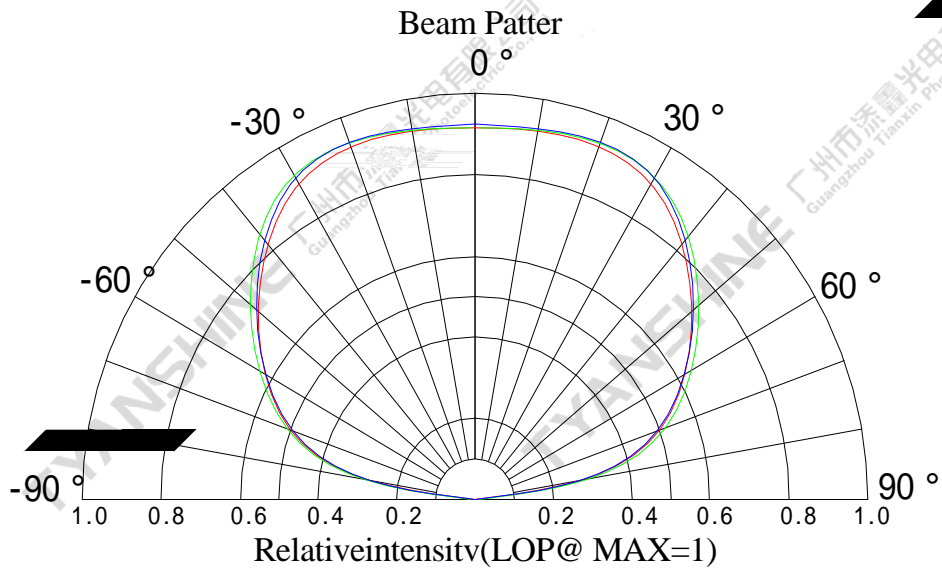
(25 °C Ambient Temperature Unless Otherwise Noted)





Spectral Radiance: Red Peak@630nm
 Green Peak@515nm
 Blue Peak@455nm





Notes:

- 1. $I_{1/2}$ is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
- 2. View angle tolerance is $\pm 10^\circ$

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