

ANSHINE

TX-RGB3A140-003K

PRODUCT SPECIFICATION

TANS

	ANSHINE		ANSHINE	Helling	
Approved by:		Checked	by:	Prepare	ed by:
Part No.	TX-RGB3A140-003K	Spec No.	WKF-BA3086	Page	1 of 8

光电有限公司 州市流

Features:

- Excellent Transiting Heat from LED Chip Operating under 700mA •
- High Luminous Output
- No UV ٠

Typical purpose:

- Portable Flashlight ٠
- Garden lighting ۵
- General Lighting



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	
	Red	Green	Blue		Red & True Green & Blue	
TX-RGB3A140-003K	AlGaInP	GalnN	GalnN	Water Clear		

Absolute Maximum Ratings at Ta=25℃

Parameter		bol	MAX.	Unit	
LED Junction Temperature	Tj		150	°C	
		R	1890		
Power Dissipation	PD	G	2800	mW	
A thores		В	2660	-H - 10 local	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFP		1000	mA	
Continuous Forward Current			700	mA	
Reverse Voltage		2	5	V	
Electrostatic Discharge Threshold (ESD)	ES	D	2000	V	
Operating Temperature Range	Top	or	-30 to +70	°C	
Storage Temperature Range	Tsr	or	-40 to +100	Ĉ	
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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Characteristics at If=700mA ,Vr=5V (Ta=25°C):

	•		,		, IV	Y.a
Devementer	Symbol	Emitting Color	Values			11.14
Parameter			Min.	Тур.	Max.	Units
	A Strong	R	115	130	Winn	
Luminous Flux	φν	G	195	210	_	Im
	Guanger	В	30	40	—	
		R		140	_	
Viewing Angle at 50 % IV	2 θ _{1/2}	G		140		Deg
G		В	<u>8</u> .	140	—	
L.		R	625	630	635	
Peak Emission Wavelength	λр	G	510	515	520	nm
		В	445	448	450	
		R	620	622	625	
Dominant Wavelength	λd	G	520	523	525	nm
and the second sec		В	452	455	463	
A CONTRACTOR		R	15	20	25	Contraction Contraction
Spectral Line Half-Width	Δλ	G	25	30	35	nm
WH Hart		B	15	20	25	intin to
< Margine		R	2.0	2.3	2.6	
Forward Voltage	Vf	G	3.0	3.3	3.6	V
		В	3.0	3.3	3.6	
Reverse Current	IR			SH	10	μA
Thermal Resistance Junction to Case	Rθ _{J-C}	_		10		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 (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 $\pm 15\%$.
- 5. Forward voltage is measured with an accuracy of ± 0.15 V.

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TYANSHINE **Typical Electrical / Optical Characteristics Curves** (25°C Ambient Temperature Unless Otherwise Noted) Forward Current VS. Forward Voltage 3.8



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TYANSHINE 州市 光电间 **Beam Patter** 0° -30° 30° -60°⁄ (60° -90° 90° 1.0 0.8 0.6 0.4 0.2 0.4 0.6 0.8 1.0 0.2 Relativeintensitv(LOP@ MAX=1) 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 $\pm 5^{\circ}$. WANSHINE Com MANSHINE MANSHINE TAM SHINE Com TAMSHINE Contraction

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