

# TX-R3A140-010G

# **PRODUCT SPECIFICATION**

Approved	by: toelectricity	Checked by	enotoelectricity Pro	epared b	y:
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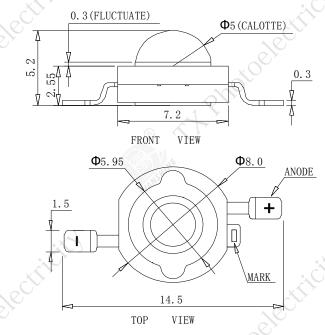
#### Features:

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

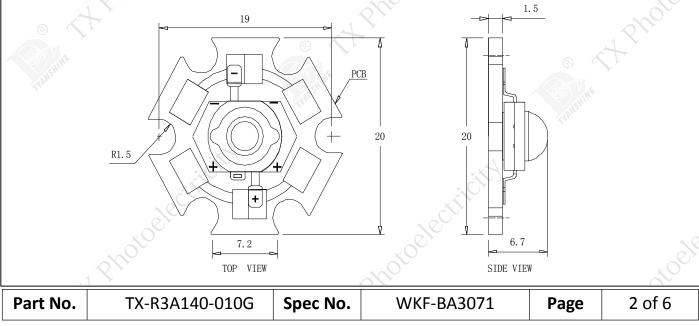
#### **Typical purpose:**

- Portable Flashlight
- Garden lighting
- General Lighting

#### Package Dimensions:



### Installs on the aluminum sheet:



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#### Notes:

- 1. Thermoelectric integrated Red chip packaged in this product.
- 2.All dimensions are in millimeters (inches).
- 3. Tolerance is ±0.25 mm (0.01") unless otherwise noted.

	Part NO.	Lens Color	Source Color	1
ANSHINE	TX-R3A140-010G	Water Clear	Red	

#### Absolute Maximum Ratings at Ta=25 $^\circ\!\!\mathbb{C}$

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Parameter	Symbol	MAX.	Unit
LED Junction Temperature	Tj	125	°C
Power Dissipation	PD	2170	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFP	1000	mA
Continuous Forward Current	AF.	700	mA
Reverse Voltage	VR	5 📀 🔨	V
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Operating Temperature Range	T <sub>opr</sub>	-40 to +70	°C
Storage Temperature Range	T <sub>spr</sub>	-40 to +100	C
Lead Soldering Temperature	Tsol	Hand Soldering: $350^{\circ}$ C for	8 sec.

#### 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.

#### Characteristics at If=700mA ,Vr=5V (Ta=25°C):

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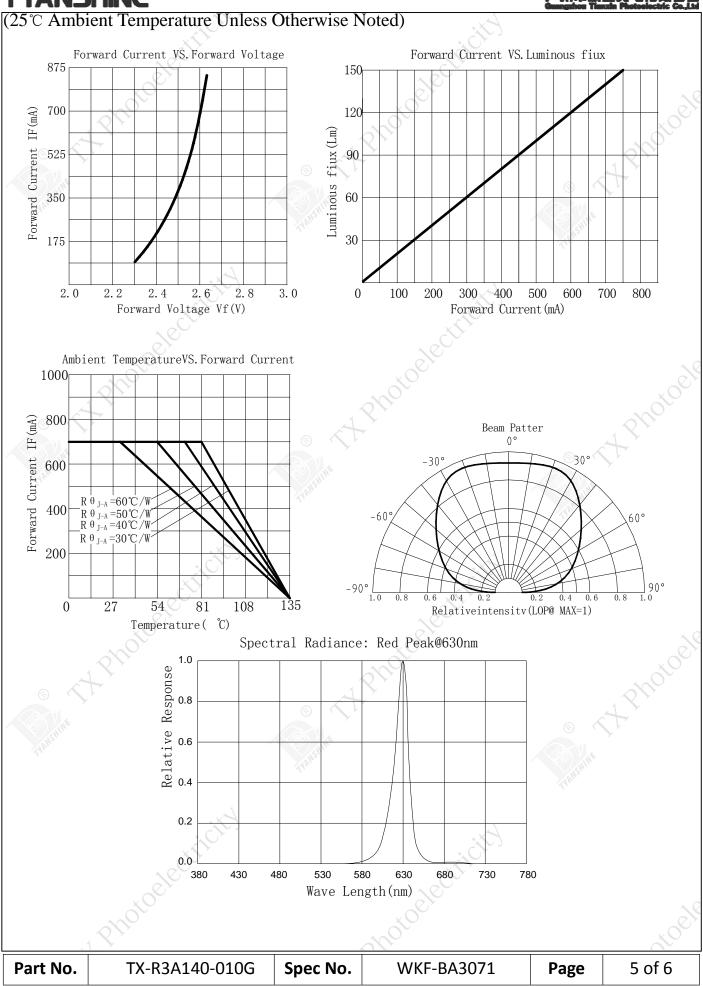
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Demonstration	Gunghad	Values			
Parameter	Symbol	Min.	Тур.	Max.	Units
Luminous Flux	φv	100	140		lm
Viewing Angle at 50 % IV	2θ <sub>1/2</sub>		140		Deg
Peak Emission Wavelength	λρ	625	630	635	nm
Dominant Wavelength	λd	618	620	628	nm
Spectral Line Half-Width	Δλ	15	20	25	nm
Forward Voltage	V <sub>f</sub>	2.0	2.3	2.7	V
Reverse Current	I <sub>R</sub>		A-	10	μA
Thermal Resistance Junction to Case	Rθ <sub>J-C</sub>		5.9		K/W
Temperature Coefficient of Forward Voltage	V∆F/T	<u></u>	-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 ±0.15V.

Typical E	lectrical / Optical C	haracteris	tics Curves		x oele
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### TYANSHINE 近电自限公司 PRECAUTION IN USE Storage Recommended storage environment Temperature: $5^{\circ}$ C ~ $30^{\circ}$ C (41oF ~ 86oF) Humidity: 60% RH Max. Soldering Hand Soldering 350°C Max. Temperature Soldering time 8sec. Max. Dimensions for Cannulation and Packaging $-8.0\pm1.0$ + ||\_\_ Д 16.8±1.0 8.8±1.0 $3.3 \pm 1.0$ Quantity: 50PCS 22.1±1.0 $12.8 \pm 0.1$ Quantity: 24PCS 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. 6 of 6 TX-R3A140-010G WKF-BA3071 Part No. Spec No. Page