# TX-S3A140-002K

# PRODUCT SPECIFICATION

Approved by:

Checked by:

Prepared by:

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 TX-S3A140-002K
 eSpec No.
 WKF-BA3095
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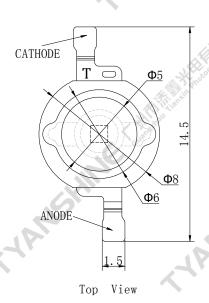
#### Features:

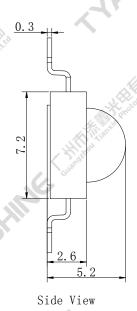
- ◆ Excellent Transiting Heat from LED Chip Operating under 700mA
- ◆ High Luminous Output
- ♦ No UV

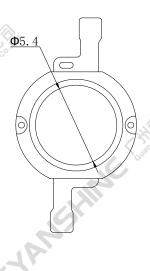
# Typical purpose:

- ◆ Portable Flashlight
- Garden lighting
- General Lighting

# **Package Dimensions:**

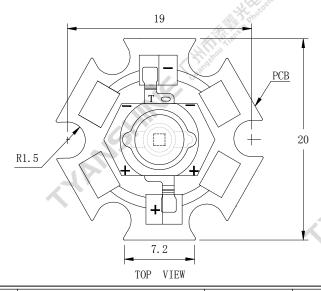


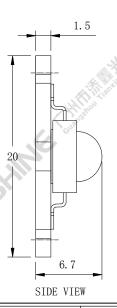




Bottom View

## Installs on the aluminum sheet:





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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.	Lens Color	Source Color
TX-S3A140-002K	Water Clear	Warm white

#### Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	MAX.	Unit
LED Junction Temperature	Tj	150	$^{\circ}$ C
Power Dissipation	P <sub>D</sub>	2800	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I <sub>FP</sub>	1000	mA
Continuous Forward Current	IF	700	mA
Reverse Voltage	V <sub>R</sub>	5	V Notoco
Electrostatic Discharge Threshold (ESD)	ESD	2000	(Taller V
Operating Temperature Range	Topr	-30to +70	$^{\circ}$
Storage Temperature Range	T <sub>spr</sub>	-40 to +100	
Lead Soldering Temperature	Tsol	Hand Soldering: 350℃ fo	r 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.
- 5. This data-sheet only valid for six months.



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

Davamatan	0	Values				
Parameter	Symbol	Min.	Тур.	Max.	Units	
Luminous Flux	φν	205	265	Mil to been	lm	
Viewing Angle at 50 % IV	2θ <sub>1/2</sub>	_	140	iantin —	Deg	
Forward Voltage	V <sub>f</sub>	3.2	3.6	4.0	V	
Correlated Colour Temperature	CCT	2850	3000	3500	К	
Reverse Current	I <sub>R</sub>	15		10	μA	
Thermal Resistance Junction to Case	Rθ <sub>J-C</sub>	_	10	_	K/C	
Temperature Coefficient of Forward Voltage	V△F/T	_	-2	_	mV/℃	
Color Rendering Index	Ra	Control of the second		_	- 317	

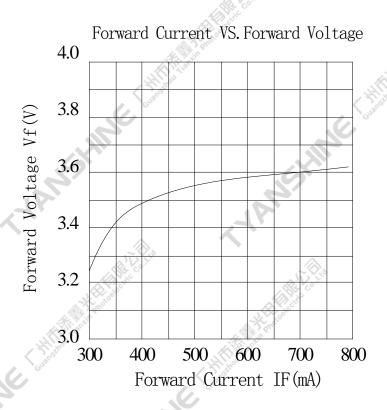
#### Notes:

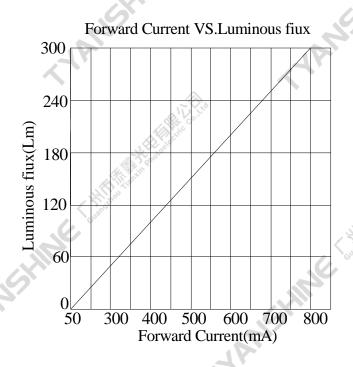
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2.01/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3. The dominant wavelength (λd) is derived from the CIE chromaticity diagram 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 ±0.15V.
- 6. CCT selection acc. to CCT groups and an accuracy of ±300K.

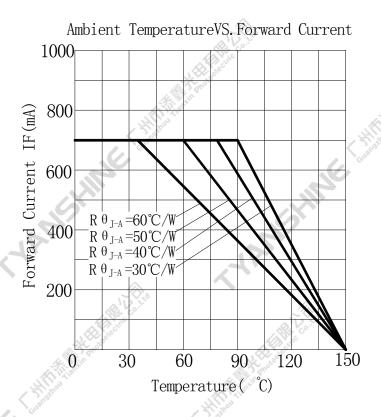
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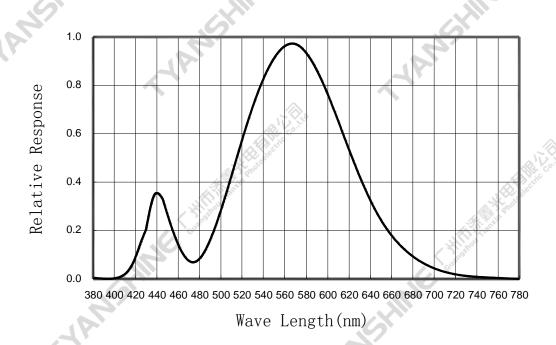
# Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

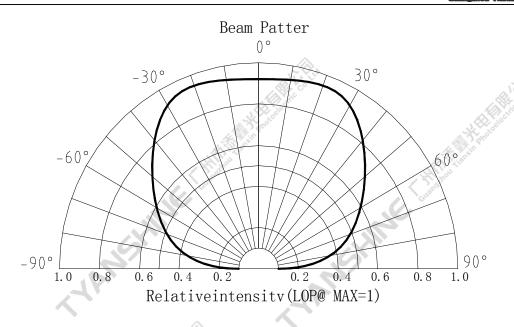








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#### PRECAUTION IN USE

### Storage

Recommended storage environment

Temperature:  $5^{\circ}$  ~  $30^{\circ}$  (41oF ~ 86oF)

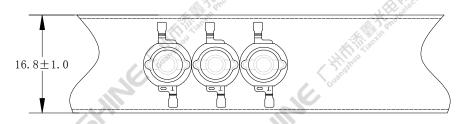
Humidity: 60% RH Max.

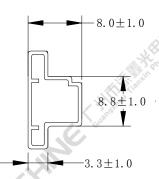
#### Soldering

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

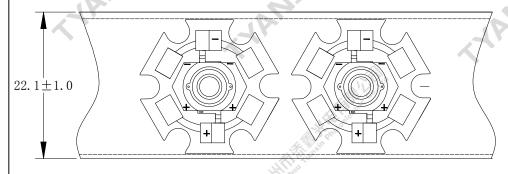
# Dimensions for Cannulation and Packaging

### **Quantity: 50PCS**





## 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.

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