TX-R3A140-010G

PRODUCT SPECIFICATION

Approved by:

Checked by:

Prepared by:

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 TX-R3A140-010G
 Spec No.
 WKF-BA3071
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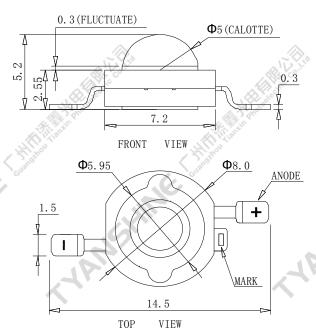
Features:

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

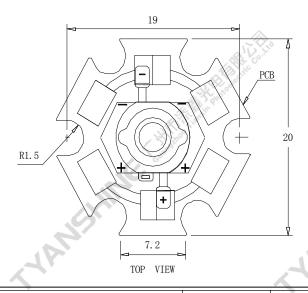
Typical purpose:

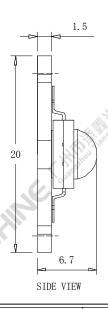
- ◆ Portable Flashlight
- Garden lighting
- General Lighting

Package Dimensions:



Installs on the aluminum sheet:





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Notes:

- 1.All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25 mm (0.01") unless otherwise noted.

| Part NO. | Lens Color | Emitting Color | |
|----------------|-------------|----------------|--|
| TX-R3A140-010G | Water Clear | Red | |

Absolute Maximum Ratings at Ta=25℃

| Parameter | Symbol | MAX. | Unit |
|--|------------------|-------------|---------------|
| LED Junction Temperature | Tj | 150 | $^{\circ}$ |
| Power Dissipation | P _D | 2170 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | I _{FP} | 1000 | mA |
| Continuous Forward Current | IF THE THE | 700 | mA |
| Reverse Voltage | VR | 5 | Cuaria V |
| Electrostatic Discharge Threshold (ESD) | ESD | 2000 | V |
| Operating Temperature Range | T _{opr} | -30 to +70 | ${\mathbb C}$ |
| Storage Temperature Range | T _{spr} | -40 to +100 | |

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.



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

| Devementer | Cymah al | Values | | | I I a i i a |
|--|-------------------|-----------|------|------|-------------|
| Parameter | Symbol | Min. | Тур. | Max. | Units |
| Luminous Flux | φν | 100 | 140 | _ | lm |
| Viewing Angle at 50% IV | 2θ _{1/2} | 6 | 140 | _ | Deg |
| Peak Emission Wavelength | λр | 625 | 630 | 635 | nm |
| Dominant Wavelength | λd | 618 | 620 | 628 | nm |
| Spectral Line Half-Width | Δλ | 15 | 20 | 25 | nm |
| Forward Voltage | V _f | 2.0 | 2.3 | 2.7 | V |
| Reverse Current | I _R | _ | _ | 10 | μА |
| Thermal Resistance Junction to Case | Rθ _{J-C} | Wall Co | 25 | _ | K/W |
| Temperature Coefficient of Forward Voltage | V△F/T | A Section | -2 | _ | mV/℃ |

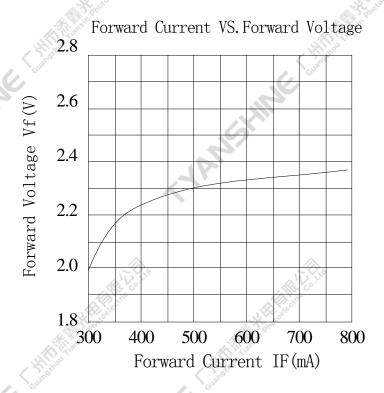
Notes:

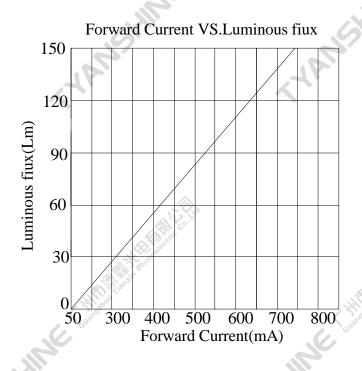
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $2.\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity
- 3. The dominant wavelength (λd) is derived from the CIE chromaticity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

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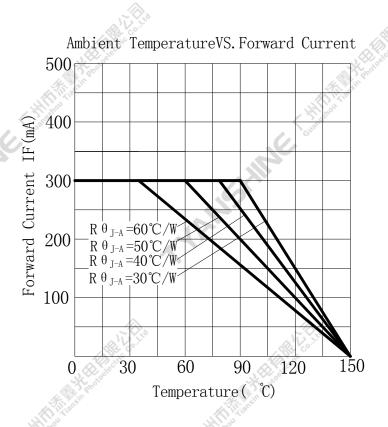
Typical Electrical / Optical Characteristics Curves

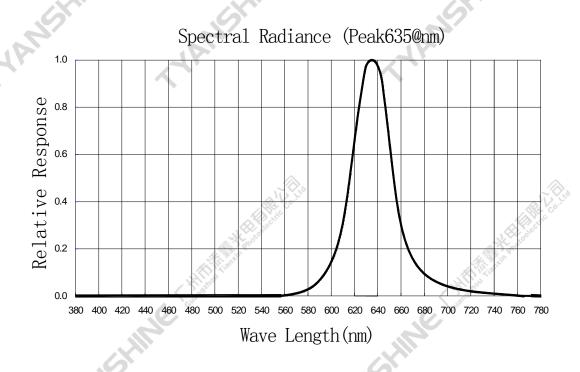
(25[°]C Ambient Temperature Unless Otherwise Noted)



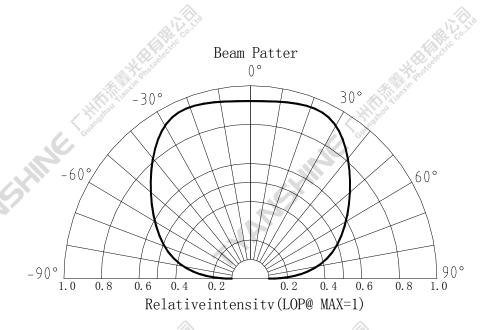


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Notes:

- 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°

PRECAUTION IN USE

Storage

Recommended storage environment

Temperature: 5° ~ 30° (41oF ~ 86oF)

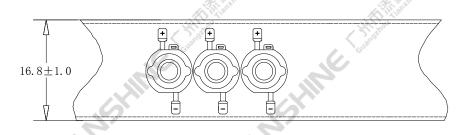
Humidity: 60% RH Max.

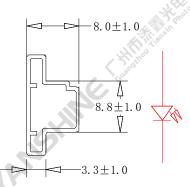
Soldering

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

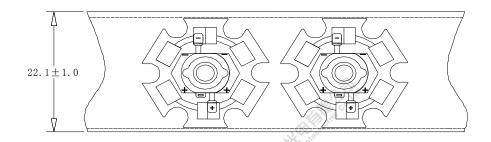
Dimensions for Cannulation and Packaging

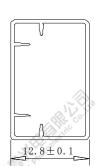
Quantity: 50PCS





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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