TX-1818BS30FC180-NUVENG-02C

PRODUCT SPECIFICATION

Features:

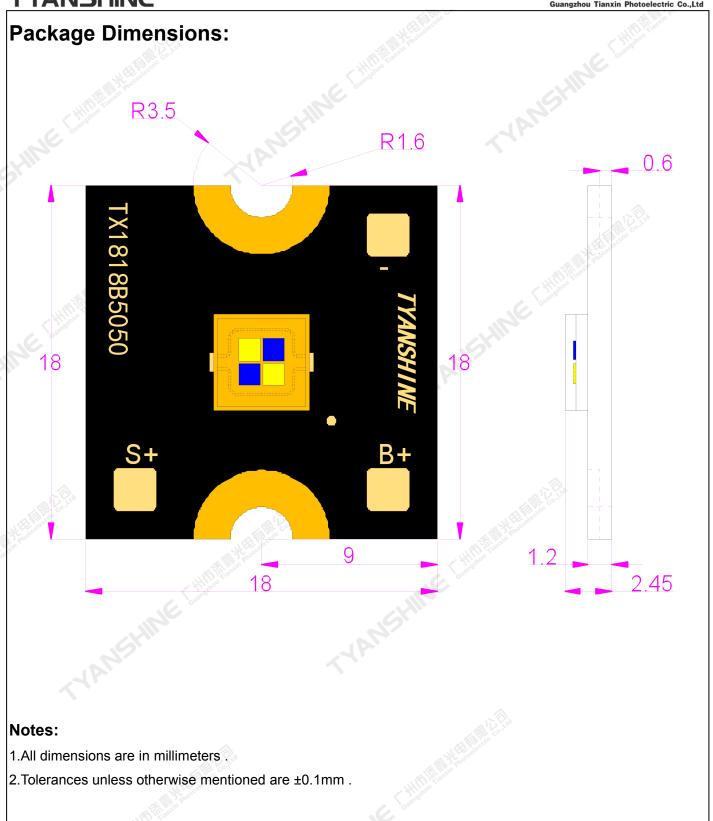
- ◆Excellent transiting heat from LED chip operating under 2.5A.
- ◆High luminous output.
- ♦No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material: Emitting Color: Applications:

◆GaN ◆Blue ◆Auxiliary lighting

♦ Warm white ♦ Architectural lighting

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Absolute Maximum Ratings (Tc=25℃)

| | | (1), 1. | | | | |
|--|----------------|---------|------------------------------------|--------------|--|--|
| Parameter | | bol | Ratings | Unit | | |
| Forward Current Reverse Voltage | | | 2500 | mA | | |
| | | ₹ | Not designed for reverse operation | V | | |
| Power Dissipation | В | | 18.2 | W | | |
| Power Dissipation | P _D | S | 18.5 | We control | | |
| Junction Temperature | Tj. | | 150 | $^{\circ}$ C | | |
| Electrostatic Discharge Threshold (ESD) | | D | 2000 | V | | |
| Storage Temperature Operation Temperature | | g | -40~+70 | °C | | |
| | | or | -30~+100 | C | | |

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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Electrical Optical Characteristics (Tc=25°C)

| | | | 411111 | | | A 100 A | |
|-----------------------------|---------------------|-----------|----------------|------------|------------------|---------|---------|
| Parameter | Symbol | Condition | Emitting color | Min. | Тур. | Max. | Units |
| Luminous Flux | φν | NSHIP | В | 140 | 160 | 180 | Im |
| Luminous Flux | | | S | 1100 | 1300 | 1500 | lm |
| Dominant Wavelength | λd | | В | 448 | 453 | 458 | nm |
| Peak-emission Wavelength | λр | | В | 443 | 448 | 453 | nm |
| Correlated Colour | ССТ | | S | 3700 | 3820 | 3950 | К |
| Temperature | CCT | - If=2.5A | | 3800 | 3950 | 4100 | |
| Consistent Line Helf Width | Δλ | | В | 17 | 22 | 27 | nm |
| Spectral Line Half-Width | | | S | 111 | 116 | 121 | nm |
| Famurad Voltage | Skilling | | В | 6.1 | 6.7 | 7.3 | V |
| Forward Voltage | V_{f} | | S | 6.2 | 6.8 | 7.4 | V |
| Viewing Angle of 50 g N | 201/2 | | В | _ | 120 | _ | Don |
| Viewing Angle at 50 % IV | | | S | _ | 120 | _ | Deg |
| Doverge Current | I _R | R — | В | | LEE Recition Co. | _ | |
| Reverse Current | | | S | — — | Tionin pho | _ | - μΑ |
| Thermal Resistance Junction | HIII III III III | S delice | В | C. Linding | 0.88 | _ | 12001 |
| to Case | Rθ _{J-C} | I5-0.5A | S | _ | 0.88 | _ | K/W |
| Temperature Coefficient of | V ∧ ⊏/ = | If=2.5A | В | _ | -3.7 | _ | m)//°C |
| Voltage | V∆F/T | _ < | S | _ | -3.7 | _ | − mV/°C |

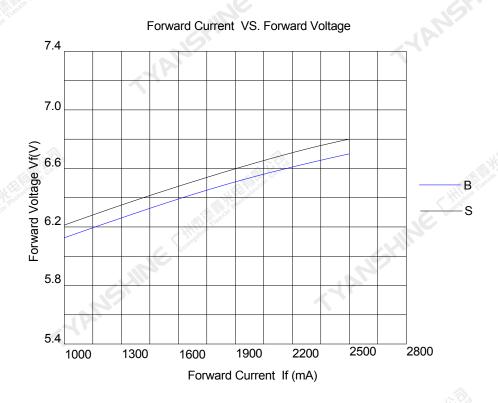
Notes:

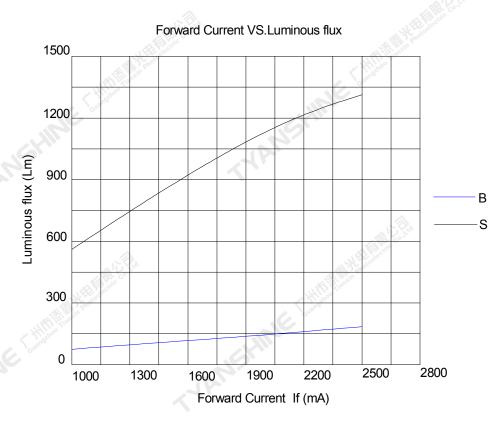
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $2.\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4. Forward voltage measurement tolerance: ±0.15V.

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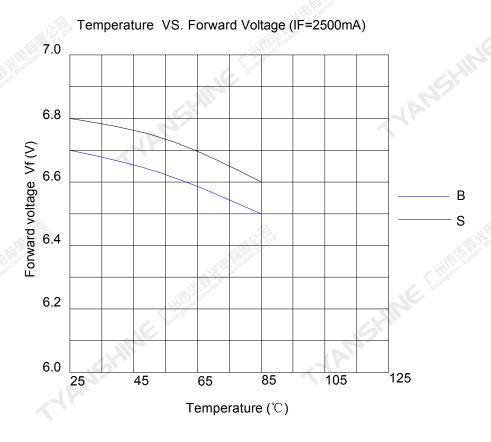
Typical Electrical/Optical Characteristics Curves

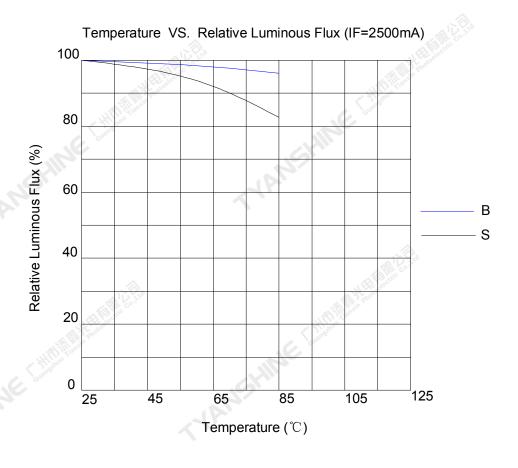
(25°C Ambient Temperature Unless Otherwise Noted)





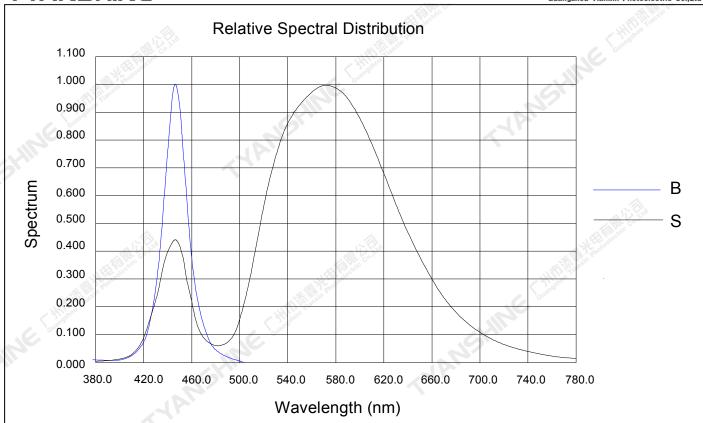
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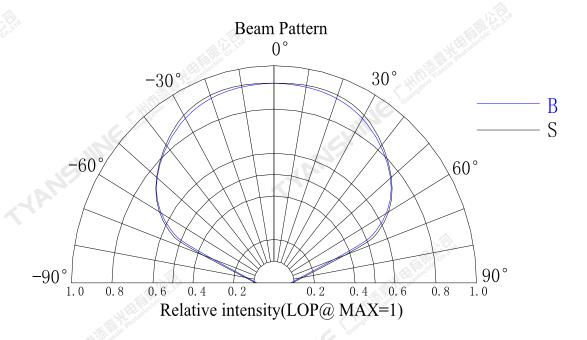




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Notes:

- 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°.

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Usage Precautions

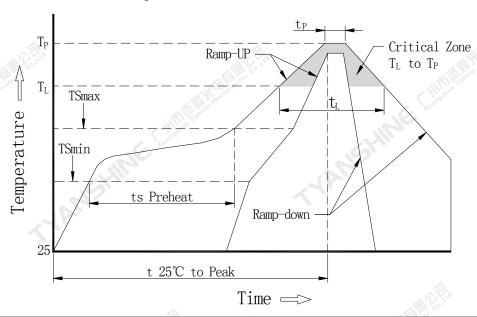
Storage Environment Condition

Temperature: 5° C ~ 30° C (41° F ~ 86° F)

Humidity: 60% RH Max.

Soldering Condition

Use the conditions shown to the under figure.



| Profile Feature | Lead-Based Solder | | | |
|---|-------------------|--|--|--|
| Average Ramp-Up Rate (Ts _{max} to T _p) | 3°C/second max. | | | |
| Preheat: Temperature Min (Ts _{min}) | 100℃ | | | |
| Preheat: Temperature Max (Ts _{max}) | 150℃ | | | |
| Preheat: Time (Ts _{min} to Ts _{max}) | 60-120 seconds | | | |
| Time Maintained Above: Temperature (T _L) | 183℃ | | | |
| Time Maintained Above: Time (T _L) | 60-150 seconds | | | |
| Peak/Classification Temperature (T _P) | 225℃ | | | |
| Time Within 5℃ of Actual Peak Temperature (T _P) | 10-30 seconds | | | |
| Ramp-Down Rate | 6℃/second max. | | | |
| Time 25℃ to Peak Temperature | 6 minutes max. | | | |

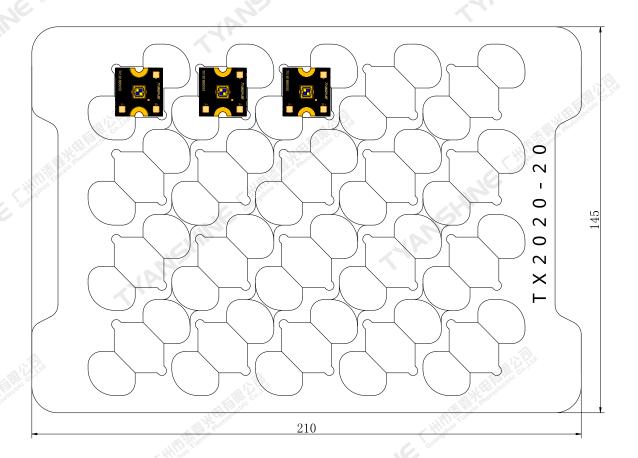
Note:

All temperatures refer to topside of the package, measured on the package body surface.

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Dimensions For Cannulation And Packaging

Quantity:20 PCS



Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerances are ±2.0 mm unless otherwise noted.
- 3. The products are packaged together with silica gel, Transport, not to the weight of welding LED light-emitting area, As a result of the weight of LED light-emitting zone in the quality of, Irre sponsible of the Company.

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