# PRODUCT SPECIFICATION

## SLX-3535RGBW5FC120-0GVCND34-02C

## High Power 3535
## RGBW LED

plusopto THE OPTOELECTRONIC SPECIALISTS

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# Part No. SLX-3535RGBW5FC120-0GVCND34-02C

SLX series high power LED's LEDs are optimized for premium lighting applications, including track, spot and downlights

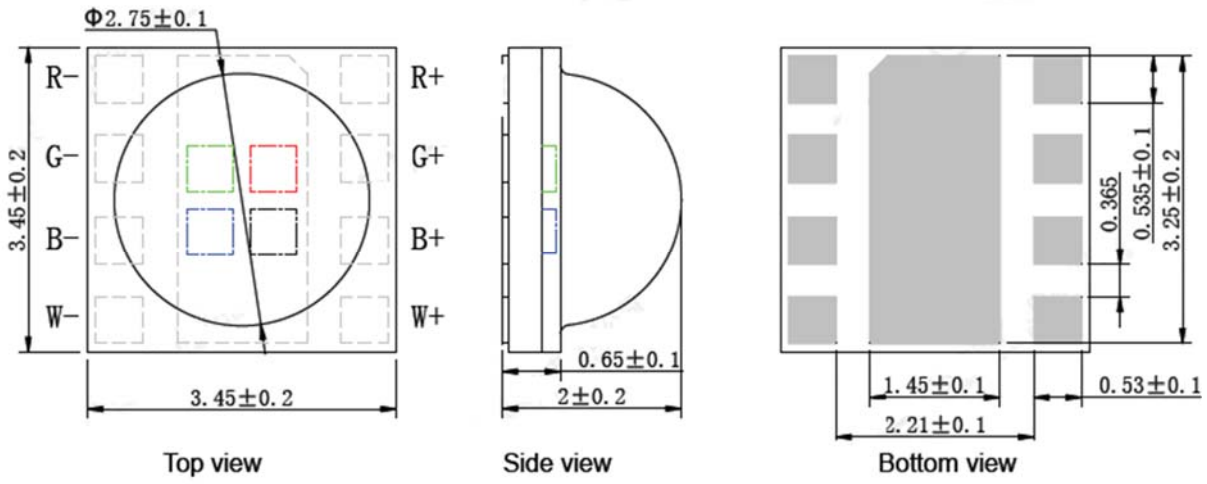
### Features

- High intensity Chip-on-Board LED lamp
- 3.5x3.5mm square
- Wide Angle
- Smooth, even light mix
- Excellent thermal transfer

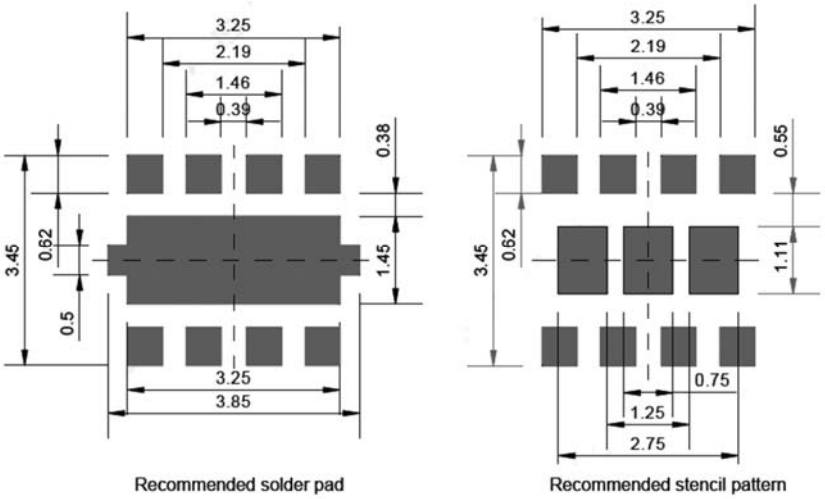
### Applications

- Indoor Lighting
- Outdoor Lighting
- Industrial Lighting
- Architectural Lighting
- Consumer Lighting

### Dimensions



**Layout**




**Absolute Maximum Ratings** （Ta=25℃）

| Parameter | Symbol | | MAX. | Unit |
|---|---|---|---|---|
| LED Junction Temperature | Tj | | 150 | ℃ |
| Power Dissipation | Pd | R | 875 | mW |
| | | G | 1260 | |
| | | B | 1260 | |
| | | W | 1190 | |
| Continuous Forward Current | If | | 400 | mA |
| Reverse Voltage | Vr | | Not designed for reverse operation | V |
| Electrostatic Discharge Threshold | ESD | | 2000 | V |
| Operating Temperature Range | Topr | | -40 to +85 | ℃ |
| Storage Temperature Range | Tstg | | -30 to +70 | |

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.

**Electrical Optical Characteristics (Ta=25℃)**

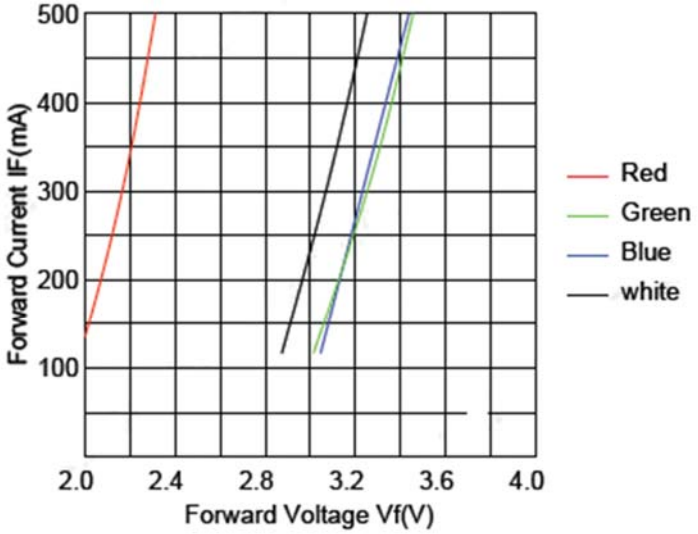
| Parameter | Symbol | Emitting Colour | Values | | | Units |
|---|---|---|---|---|---|---|
| | | | Min | Typ | Max | |
| Luminous Flux | ϕV | R | 45 | 55 | 65 | lm |
| | | G | 90 | 100 | 115 | |
| | | B | 17 | 22 | 25 | |
| | | W | 90 | 115 | 140 | |
| Viewing Angle at 50 % IV | 2θ1/2 | R, G, B, W | | 120 | | Degrees |
| Peak Emission Wavelength | λp | R | 625 | 630 | 635 | nm |
| | | G | 510 | 513 | 516 | |
| | | B | 448 | 452 | 455 | |
| Dominant Wavelength | λd | R | 620 | 625 | 630 | nm |
| | | G | 520 | 525 | 530 | |
| | | B | 455 | 460 | 462 | |
| Spectral Line Half-Width | △λ | R | 15 | 20 | 25 | nm |
| | | G | 25 | 30 | 35 | |
| | | B | 15 | 20 | 25 | |
| Forward Voltage | Vf | R | 2.0 | 2.2 | 2.5 | V |
| | | G | 2.8 | 3.3 | 3.6 | |
| | | B | 2.9 | 3.3 | 3.6 | |
| | | W | 2.9 | 3.1 | 3.5 | |
| Correlated Colour Temperature | CCT | W | 5300 | 6000 | 6800 | Deg K |
| | | | | | | |
| Color Rendering Index | IR | - | - | - | - | μA |
| Thermal Resistance Junction to Case | RθJ-C | - | - | 14 | - | K/W |

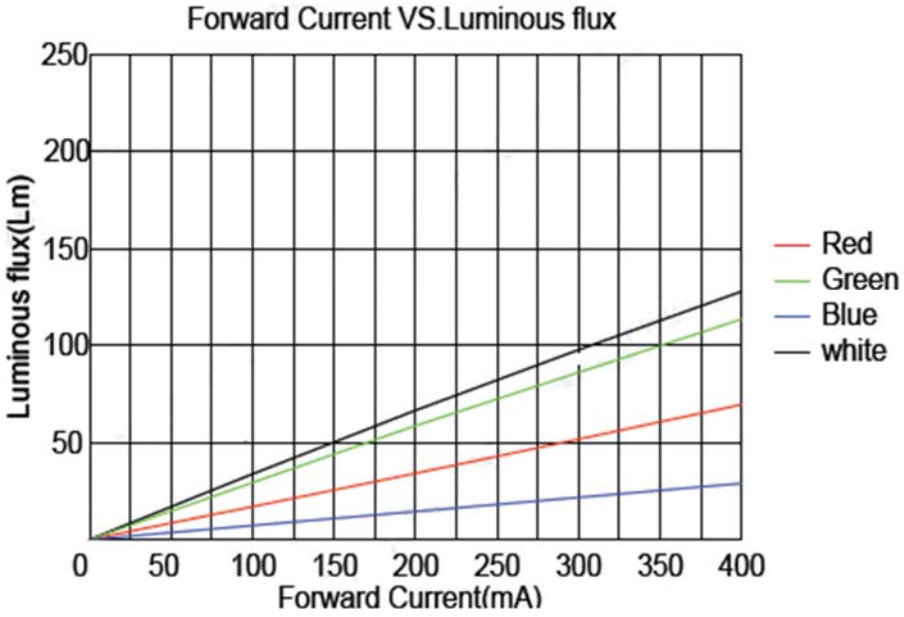
**Notes:**

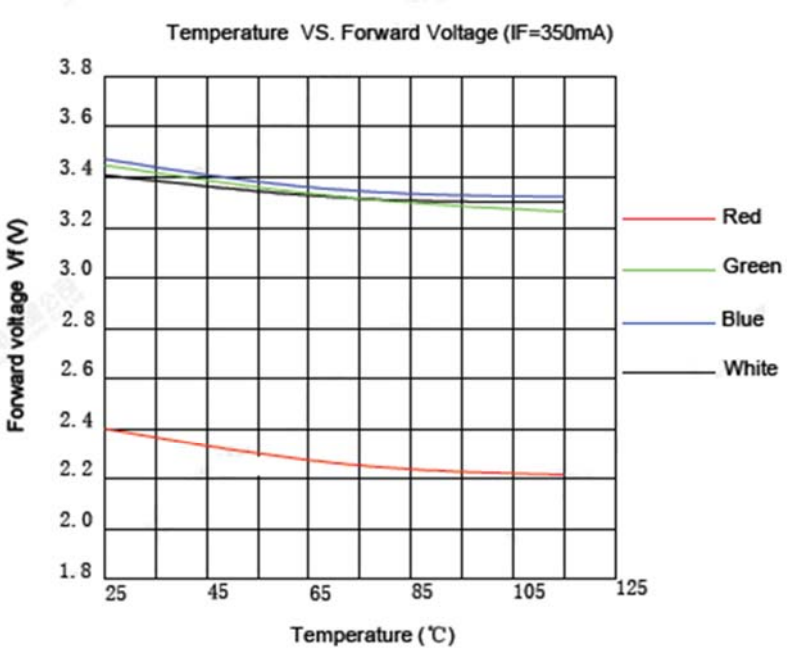
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λd) is derived from the CIE chromaticity diagram and 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.

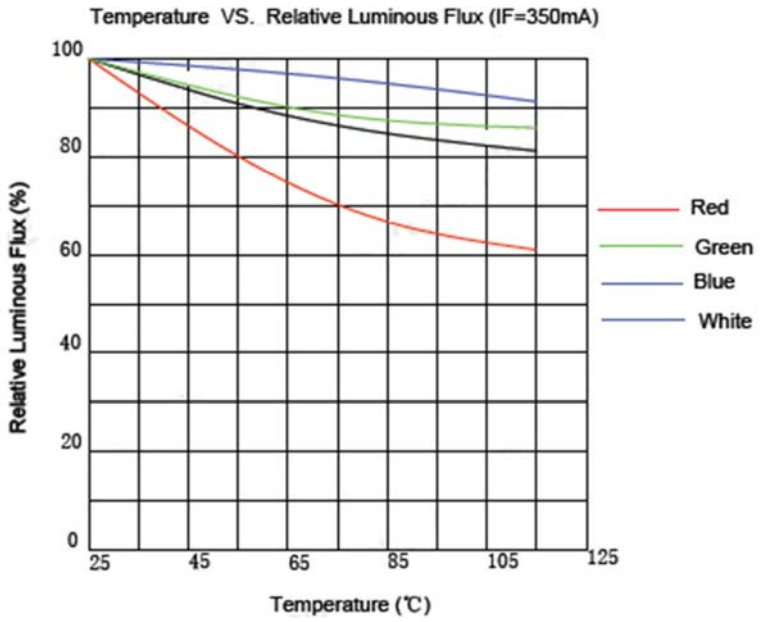
**Typical Electrical / Optical Characteristics Curves**

(25℃ Ambient Temperature Unless Otherwise Noted)



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