



**Part No.: JSL-531RGBC-CA**

**Features:**

- Long life solid state reliability.
- Low power consumption
- I.C.compatible.
- Compliance with EU REACH.
- RoHs Compliant

**Descriptions:**

- Emitting Color: Super Bright RGB.
- Device Outline:  $\phi$  5mm Round Type.
- Lens Type: Water Clear.
- Four Leads With One Common Anode Type.

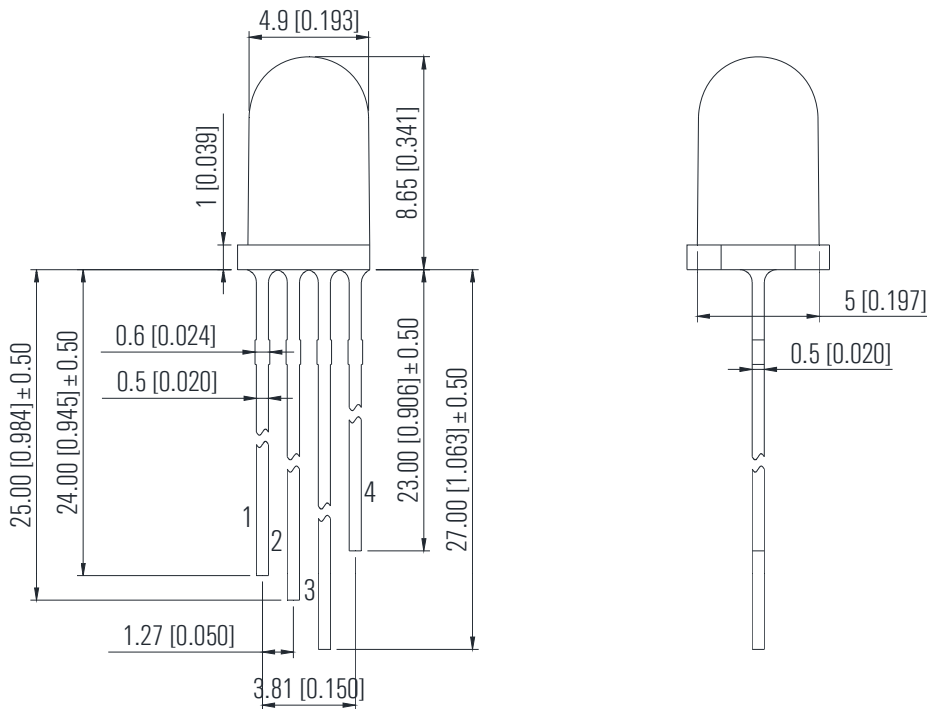
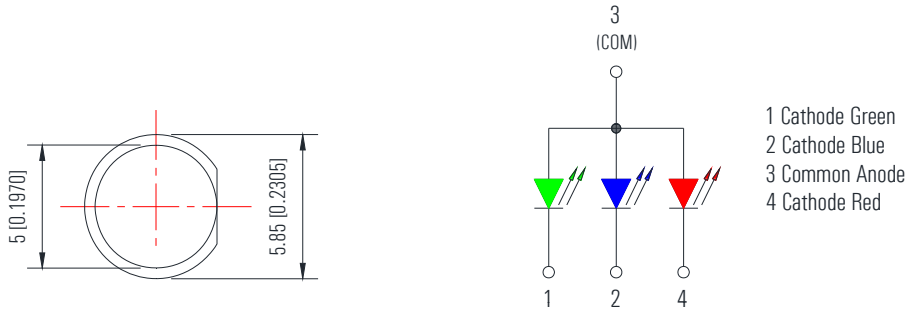
**Application:**

- Circuit board.
- TV set.
- Computer.
- Home appliance.
- Industrial.



Part No.: JSL-531RGBC-CA

Package Dimension:



Notes:

1. All dimensions are millimeters/单位: mm.
2. Tolerance is +/-0.25mm unless otherwise noted/  
没有标注的公差均为±0.25mm



Part No.: JSL-531RGBC-CA

**Absolute maximum ratings (Ta = 25°C)**

| Parameter             | Symbol            | Test Condition         | Values |      | Unit |
|-----------------------|-------------------|------------------------|--------|------|------|
|                       |                   |                        | Min.   | Max. |      |
| Reverse Voltage       | V <sub>R</sub>    | I <sub>R</sub> = 30 μA | ----   | 5    | V    |
| Forward Current       | I <sub>F</sub>    | ----                   | ----   | 25   | mA   |
| Power Dissipation     | Red               | P <sub>d</sub>         | ----   | 60   | mW   |
|                       | Green             |                        |        | 90   |      |
|                       | Blue              |                        |        | 90   |      |
| Pulse Current         | I <sub>peak</sub> | Duty=0.1mS, 1kHz       | ----   | 100  | mA   |
| Operating Temperature | T <sub>opr</sub>  | ----                   | -40    | +85  | °C   |
| Storage Temperature   | T <sub>str</sub>  | ----                   | -40    | +85  | °C   |

**Electrical and optical characteristics (Ta = 25°C)**

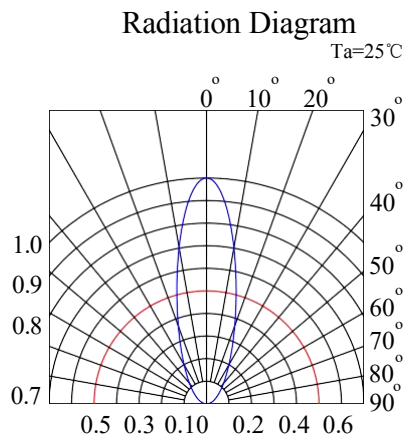
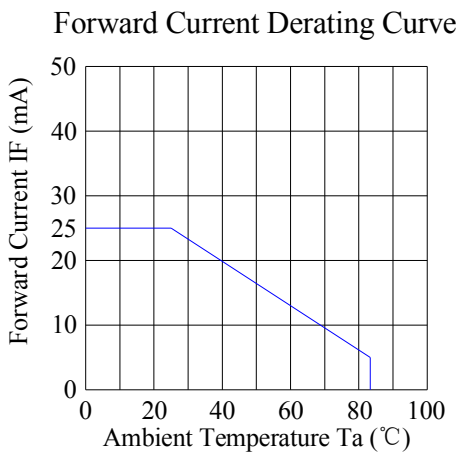
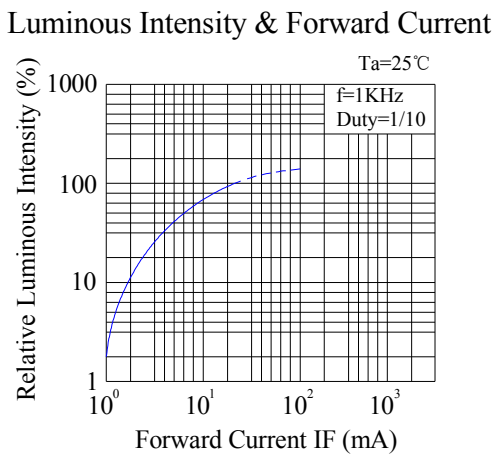
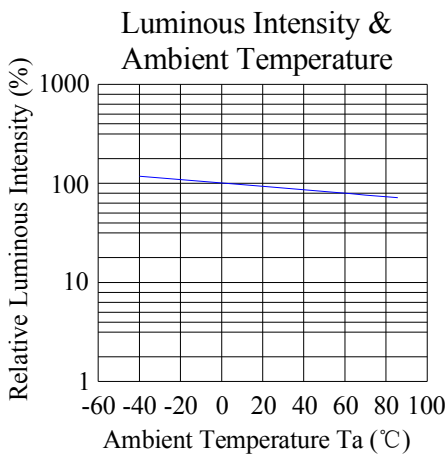
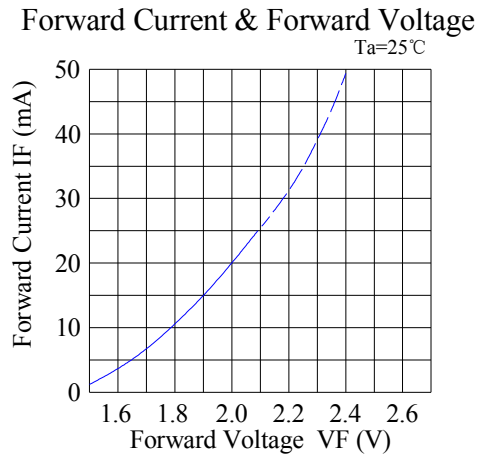
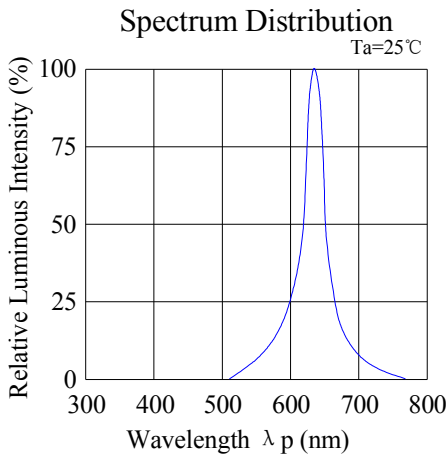
| Parameter                | Symbol         | Test Condition        | Color | Value |      |      | Unit |
|--------------------------|----------------|-----------------------|-------|-------|------|------|------|
|                          |                |                       |       | Min.  | Typ. | Max. |      |
| Forward Voltage          | V <sub>F</sub> | I <sub>F</sub> = 20mA | Red   | 1.8   | 2.0  | 2.4  | V    |
|                          |                |                       | Green | 2.6   | 3.0  | 3.4  |      |
|                          |                |                       | Blue  | 2.6   | 3.0  | 3.4  |      |
| Reverse Current          | I <sub>R</sub> | V <sub>R</sub> = 5V   |       | ---   | ---  | 5    | μA   |
| Dominate Wavelength      | λ <sub>d</sub> | I <sub>F</sub> = 20mA | Red   | ---   | 624  | ---  | nm   |
|                          |                |                       | Green | ---   | 525  | ---  |      |
|                          |                |                       | Blue  | ---   | 470  | ---  |      |
| Peak Wavelength          | λ <sub>p</sub> | I <sub>F</sub> = 20mA | Red   | ---   | 632  | ---  | nm   |
|                          |                |                       | Green | ---   | 520  | ---  |      |
|                          |                |                       | Blue  | ---   | 468  | ---  |      |
| Spectral Line half-width | Δλ             | I <sub>F</sub> =20mA  |       | ---   | 20   | ---  | nm   |
| Luminous Intensity       | I <sub>v</sub> | I <sub>F</sub> = 20mA | Red   | 2000  | 2500 | ---  | mcd  |
|                          |                |                       | Green | 4000  | 6000 | ---  |      |
|                          |                |                       | Blue  | 1500  | 2000 | ---  |      |
| Viewing Angle            | 2θ 1/2         | I <sub>F</sub> = 20mA |       | ---   | 30   | ---  | deg  |



Part No.: JSL-531RGBC-CA

Typical electrical/optical characteristic curves:

(25°C Ambient Temperature Unless Otherwise Noted)

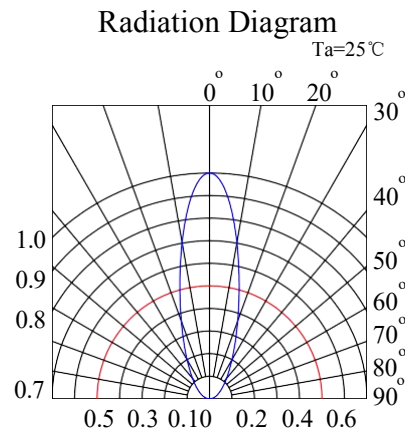
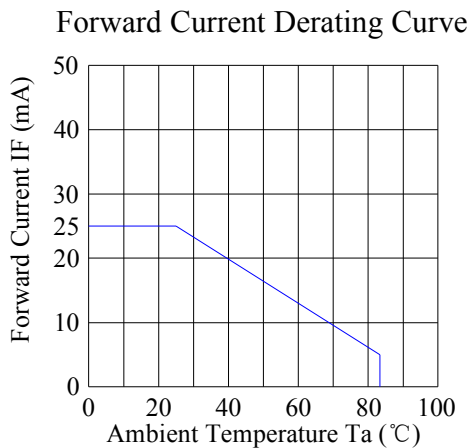
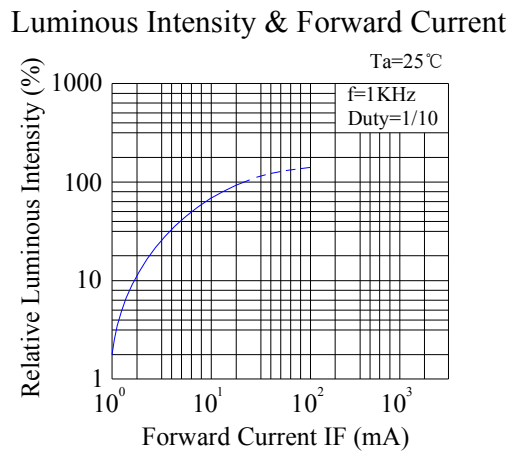
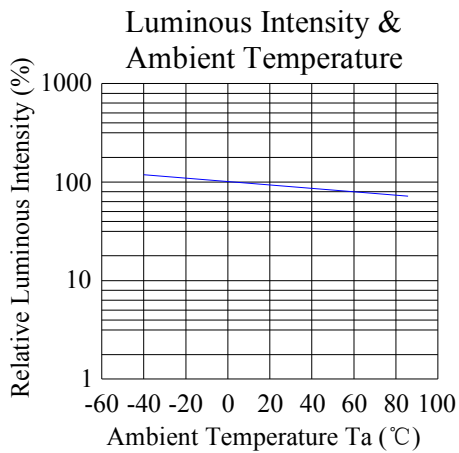
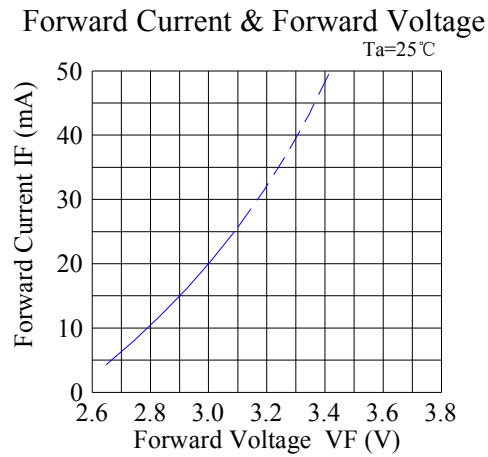
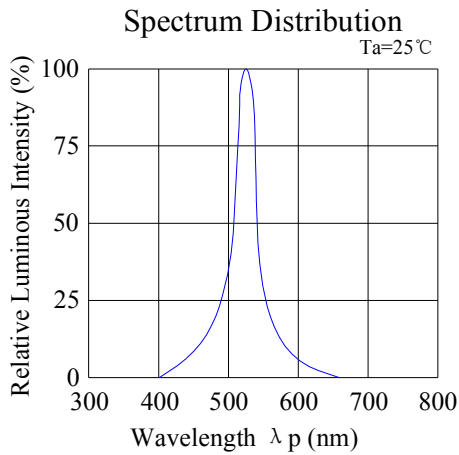




Part No.: JSL-531RGBC-CA

Typical electrical/optical characteristic curves:

(25°C Ambient Temperature Unless Otherwise Noted)



## Part No.: JSL-531RGBC-CA

### Typical electrical/optical characteristic curves:

(25°C Ambient Temperature Unless Otherwise Noted)

