# LED SPECIFICATION

## 330IB7C

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

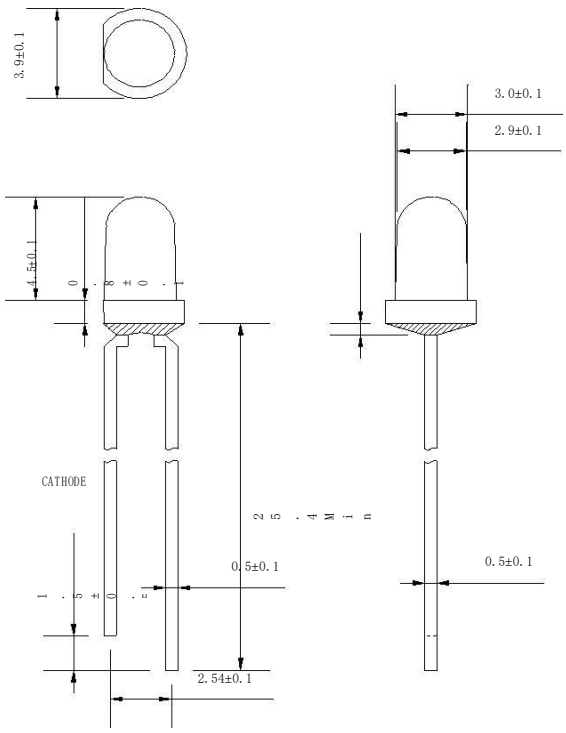
- **Features：**

Single color

High bright output

Low power consumption

High reliability and long life




All dimensions are millimeters.
Tolerance is +/-0.25mm unless otherwise noted.

- **Descriptions：**

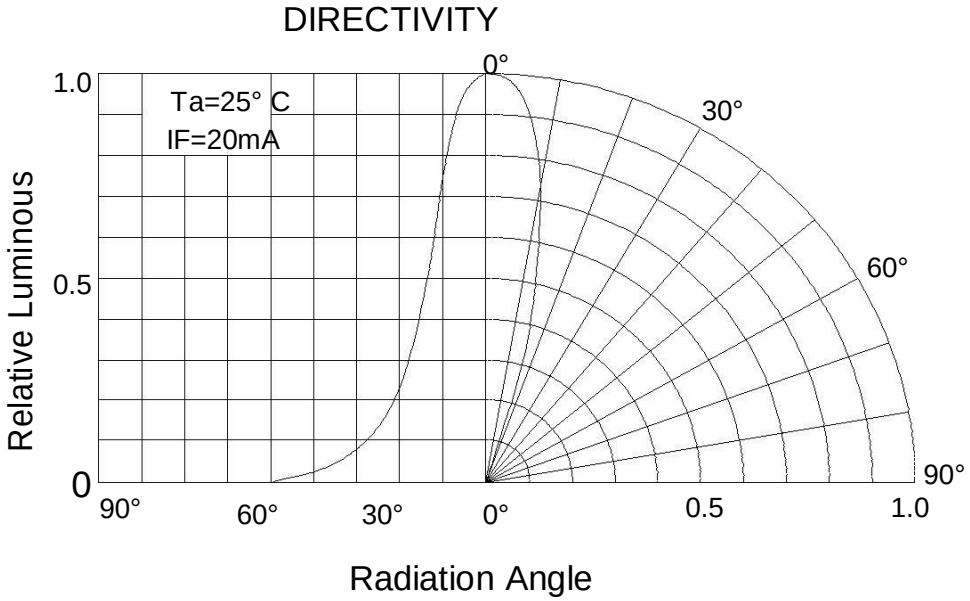
Dice material：InGaN

Emitting Color：Super Bright Blue

Device Outline： Φ3mm Round Type

Lens Type：Water Clear

- **Directivity：**



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- **Absolute maximum ratings（Ta=25℃）**

| Parameter | Symbol | Test Condition | Values | | Unit |
|---|---|---|---|---|---|
| | | | Min. | Max. | |
| Reverse Voltage | $V_R$ | $I_R$ = 30 μA | 5 | -- | V |
| Forward Current | $I_F$ | ---- | ---- | 25 | mA |
| Power Dissipation | $P_d$ | ---- | ---- | 90 | mW |
| Pulse Current | $I_{peak}$ | Duty=0.1mS，1kHz | ---- | 100 | mA |
| Operating Temperature | $T_{opr}$ | ---- | -20 | +85 | ℃ |
| Storage Temperature | $T_{str}$ | ---- | -25 | +100 | ℃ |

## Electrical and optical characteristics（Ta = 25℃）

| Parameter | Symbol | Test Condition | Values | | | Unit |
|---|---|---|---|---|---|---|
| | | | Min. | Typ. | Max. | |
| Forward Voltage | $V_F$ | $I_F$=20mA | ---- | 3.2 | 3.6 | V |
| Reverse Current | $I_R$ | $V_R$=5V | ---- | ---- | 30 | μA |
| Dominate Wavelength | $\lambda_d$ | $I_F$=20mA | ---- | 470 | ---- | nm |
| Peak Wavelength | $\lambda_p$ | $I_F$=20mA | ---- | 468 | ---- | nm |
| Spectral Line half-width | $\lambda$ | $I_F$=20mA | ---- | 20 | ---- | nm |
| Luminous Intensity | $I_V$ | $I_F$=20mA | | BIN | ---- | mcd |
| Viewing Angle | $2\theta_{1/2}$ | $I_F$=20mA | 24 | 27 | 30 | deg. |

- **Luminous Intensity Bins（Ta = 25℃）** **Unit:mcd**

| Bin | S | T | U | V | W |
|---|---|---|---|---|---|
| Min | 770 | 1100 | 1520 | 2130 | 3000 |
| Max | 1100 | 1520 | 2130 | 3000 | 4180 |

- **Dominate Wavelength Bins** Unit:nm

| Bin | B4 | B5 |
|---|---|---|
| Min | 465 | 470 |
| Max | 470 | 475 |

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- **Typical electrical/optical characteristic curves：**