

# LED SPECIFICATION



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

## 330IB7C

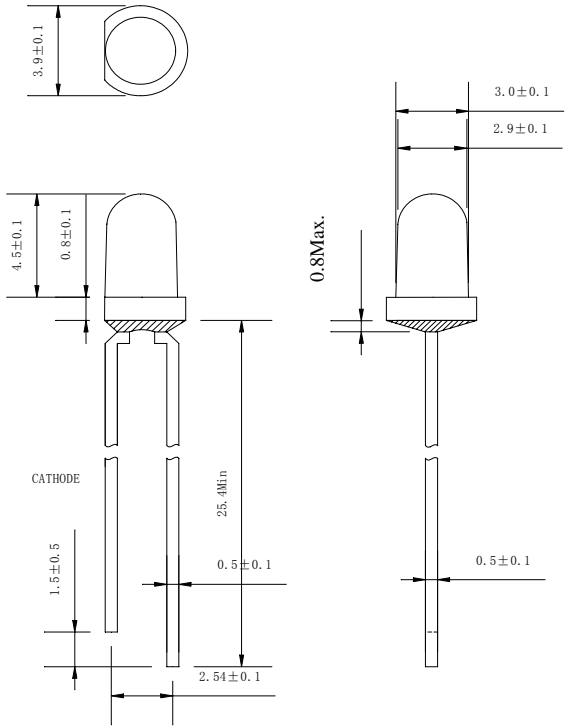
➤ **Features:**

- Single color
- High bright output
- Low power consumption
- High reliability and long life

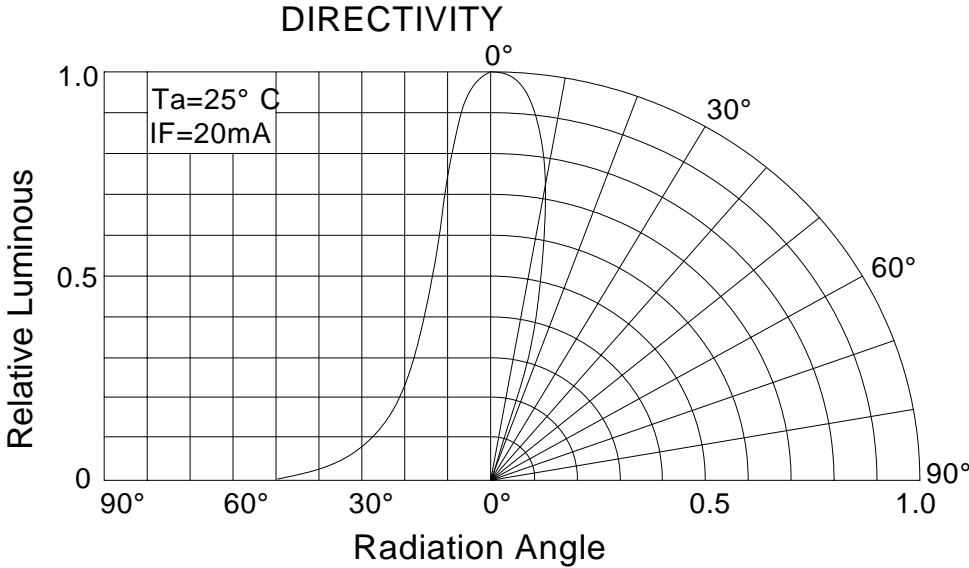
➤ **Descriptions:**

- Dice material: InGaN
- Emitting Color: Super Bright Blue
- Device Outline:  $\phi$  3mm Round Type
- Lens Type: Water Clear

➤ **Directivity:**



All dimensions are millimeters.  
Tolerance is  $\pm 0.25 \text{ mm}$  unless otherwise noted.



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➤ **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	P <sub>d</sub>	----	----	90	mW
Pulse Current	I <sub>peak</sub>	Duty=0.1mS, 1kHz	----	100	mA
Operating Temperature	T <sub>opr</sub>	----	-20	+85	°C
Storage Temperature	T <sub>str</sub>	----	-25	+100	°C

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

Parameter	Symbol	Test Condition	Values			Unit
			Min.	Typ.	Max.	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	----	3.2	3.6	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	----	----	30	μA
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> =20mA	----	470	----	nm
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> =20mA	----	468	----	nm
Spectral Line half-width	Δλ	I <sub>F</sub> =20mA	----	20	----	nm
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> =20mA		BIN	----	mcd
Viewing Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	24.....	.....27.....	.....30	deg.

**Luminous Intensity Bins (Ta = 25°C)**

**Unit:mcd**

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

➤ **Dominant Wavelength Bins**      Unit:nm

Bin	B4	B5
Min	465	470
Max	470	475

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

