



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

LED-090-55122

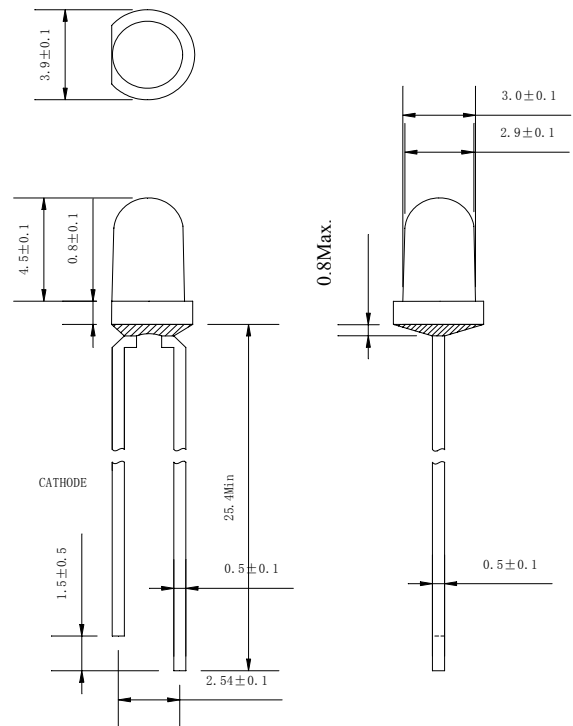
Features:

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

Descriptions:

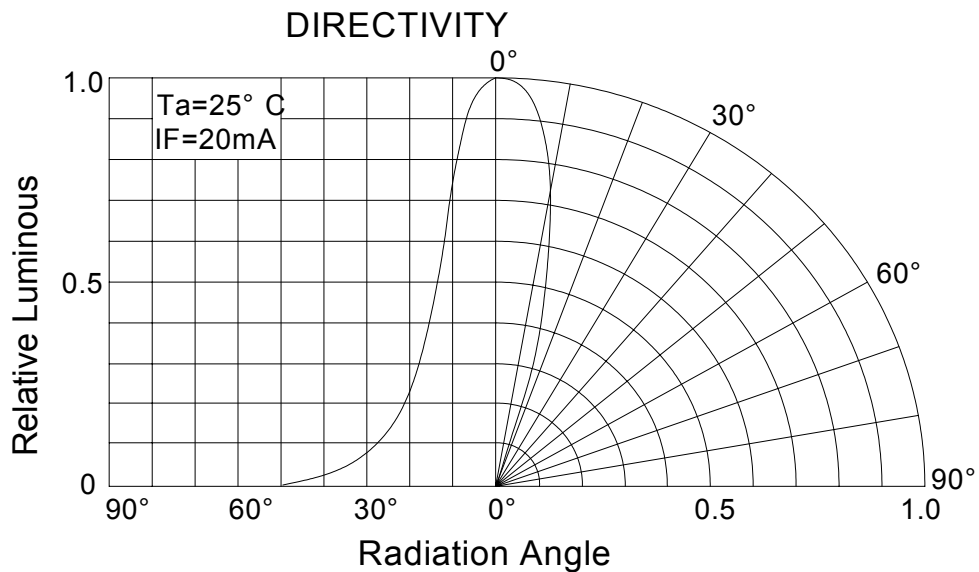
- Dice material: InGaN
- Emitting Color: Super Bright Blue
- Device Outline: ϕ 3mm Round Type
- Lens Type: Water Clear

Directivity:



All dimensions are millimeters.

Tolerance is ± 0.25 mm unless otherwise noted.



LED SPECIFICATION

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

Parameter	Symbol	Test Condition	Values		Unit
			Min.	Max.	
Reverse Voltage	V _R	I _R = 30 μ A	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	°C
Storage Temperature	T _{str}	----	-25	+100	°C

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

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	μ A
Dominate Wavelength	λ _d	I _F =20mA	----	470	----	nm
Peak Wavelength	λ _p	I _F =20mA	----	468	----	nm
Spectral Line half-width	Δ λ	I _F =20mA	----	20	----	nm
Luminous Intensity	I _v	I _F =20mA		BIN	----	mcd
Viewing Angle	2 θ 1/2	I _F =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

➤ **Dominate Wavelength Bins** Unit:nm

Bin	B4	B5
Min	465	470
Max	470	475

LED SPECIFICATION

➤ Typical electrical/optical characteristic curves:

