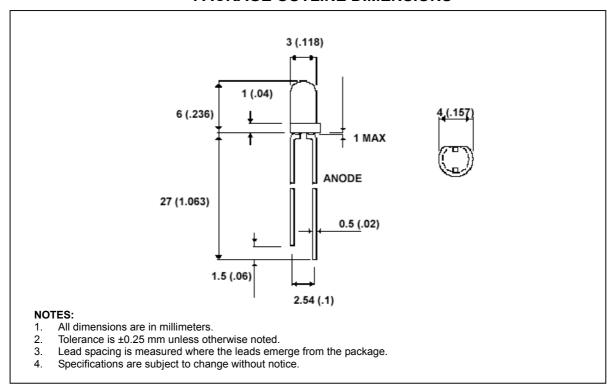


3mm Round Through-Hole Package

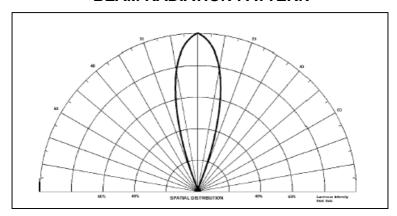
BL-LUBL3N25C series

FEATURES	APPLICATIONS
 Super luminosity Blue LED InGaN on Sapphire die. 3mm round resin mold. Water Clear Lens. Wide viewing angles (25°). 	 Decorative /Accent Lighting Full Color RGB Video Displays Automotive accessories. Back or Side lighting. Medical or Dental.

PACKAGE OUTLINE DIMENSIONS



BEAM RADIATION PATTERN





3mm Round Through-Hole Package

BL-LUBL3N25C series

ABSOLUTE MAXIMUN RATING (at $T_A = 25$ °C)

Parameter	Symbol	Value	Unit				
Continuous Forward Current	I _F	30	mA				
Peak Forward Current (1/16 Duty Cycle, 0.1msec Pulse width)	I _{Fp}	150	mA				
Power Dissipation	P _d	120	mW				
Forward Voltage	V_{f}	3.9	V				
Derating Factor	D _F	0.4	mA / °C				
Reverse Voltage	V_R	5.0	V				
Operating Temperature	T _{opr}	-25 to +85	°C				
Storage Temperature	T _{stg}	-35 to +100	°C				
Lead Soldering Temperature (1.6mm (0.063") from body)	260°C for 5 seconds						

ELECTRICAL / OPTICAL CHARACTERISTICS (at $T_A = 25^{\circ}C$)

Parameter		Symbol	Min	Тур	Max	Unit
Forward Voltage	I F= 20 mA	V _F		3.5	3.9	V
Dominant Wavelength	 F= 20 mA	λ_{d}		470		nm
Peak Wavelength	 F= 20 mA	λ_{p}		465		nm
Spectrum Radiation Bandwidth	 F= 20 mA	Δλ		20		nm
Reverse Current	V R= 5 V	l _R			100	μΑ
Viewing Angle		2 θ 1/2		25		deg
Luminous Intensity	F= 20 mA	I۷	600	1900	2200	mcd

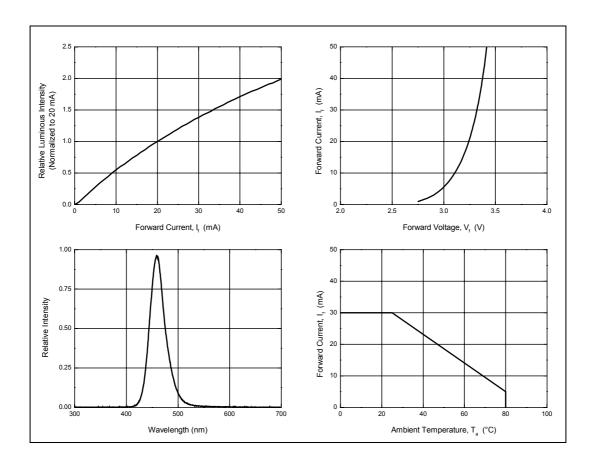
NOTE: Different wavelength will include three different ranks by Luminous Intensity.

3mm Round Through-Hole Package



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TYPICAL ELECTRICAL CHARACTERISTICS CURVES (at 20 mA DC / T_A = 25°C)



GENERAL NOTES:

- 1. Luminous Intensity (Iv) is measured with a light sensor and filter combination (goniospectroradiometer) and is the Luminous Flux per unit solid angle (steradian) emitted by the LED lamp in the direction of the mechanical axis of the lamp and then weighed by the eye response curve (1931 CIE 2° Observer Chromaticity Diagram).
- 2. Luminous Intensity measurement uncertainty is +/- 15% due to test procedures and equipment variations.
- 3. θ1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity. Tolerance +/- 3°.
- 4. Dominant wavelength is derived from the 1931 CIE 2° Observer Chromaticity Diagram.
- 5. Peak and Dominant wavelength measurement uncertainty is +/- 0.05 due to variations.
- 6. Caution for ESD: Static Electricity and surges can damage the LED. It is recommended using a wristband or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
- 7. Do not apply excess mechanical stress to the leads, especially when heated or while soldering.

3mm Round Through-Hole Package



BL-LUBL3N25C series

PRODUCT CODE BREAKDOWN

