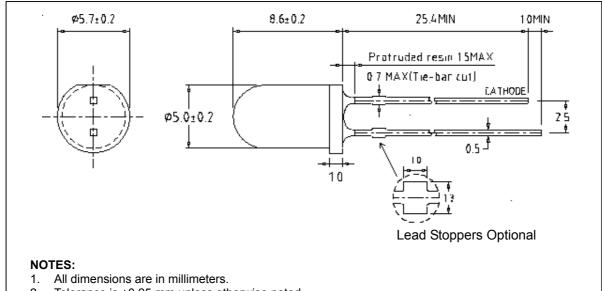
DRITE-LED Optoelectronics

5mm Through-Hole Package

BL-LUUV5N38C series

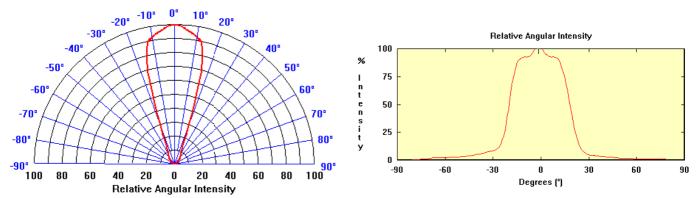
FEATURES	APPLICATIONS
 High Output Ultraviolet (UV-A) LED GaN on Sapphire die. 5mm round resin mold. Water Clear Lens. Wide viewing angle. 	 Epoxy Curing Currency validation / detection Bacteria detection. Medical and forensics. Decorative /Accent Lighting

PACKAGE OUTLINE DIMENSIONS:



- 2. Tolerance is ±0.25 mm unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

BEAM RADIATION PATTERN





5mm Through-Hole Package

BL-LUUV5N38C series

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

Parameter	Symbol	Value	Unit				
Continuous Forward Current	I _F	30	mA				
Peak Forward Current (1/10 Duty Cycle, 0.1msec Pulse width)	I _{Fp}	100	mA				
Power Dissipation	P _d	100	mW				
Forward Voltage	V _f	3.3	V				
Reverse Voltage	V_{R}	5.0	V				
Operating Temperature	T _{opr}	-40 to +85	°C				
Storage Temperature	T _{stg}	-45 to +100	°C				
Lead Soldering Temperature (1.6mm (0.063") from body)	260°C for 5 seconds						

ELECTRICAL / OPTICAL CHARACTERISTICS (at $T_A = 25$ °C)

Parameter		Symbol	Min	Тур	Max	Unit
Forward Voltage	F= 20 mA	V F		3.1	3.3	V
Total Radiant Flux	F= 20 mA	Р	4	8		mW
Radiant Intensity (on optical axis)	F= 20 mA	l _r		10		mW/sr
Peak Wavelength	F= 20 mA	λ_{p}	398	403	410	nm
Spectrum Radiation Bandwidth	F= 20 mA	Δλ		19		nm
Viewing Angle		2 θ 1/2	36	38	40	deg
Reverse Current	V R= 5 V	l _R		10	100	μА

Operating Warning Notes:

This device radiates intense Ultra Violet (UV) light when operated. Most of the UV radiation is not visible. Exposure to UV can be harmful to your health.

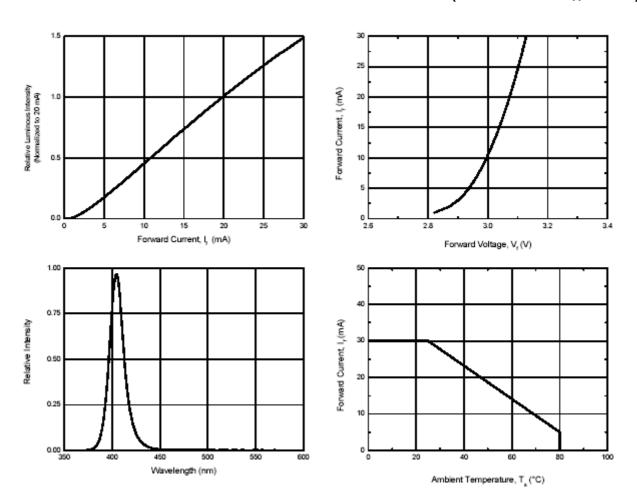
Proper eye and skin protection is recommended. Do not look directly at the device during operation. Even brief exposure can produce eye damage.

5mm Through-Hole Package





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



GENERAL NOTES:

- 1. Total Radiant Flux (P), a radiometric measurement, is obtained by measuring with an integrating sphere and a light sensor filter combination (spectroradiometer) and is the Total Light Energy (Flux) emitted by the LED lamp in all directions (isotropic). Radiant Intensity (I) is the portion of the light energy within a 3° solid angle in the optical axis.
- 2. Total Radiant Flux 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.

5mm Through-Hole Package



BL-LUUV5N38C series

PRODUCT CODE BREAKDOWN

