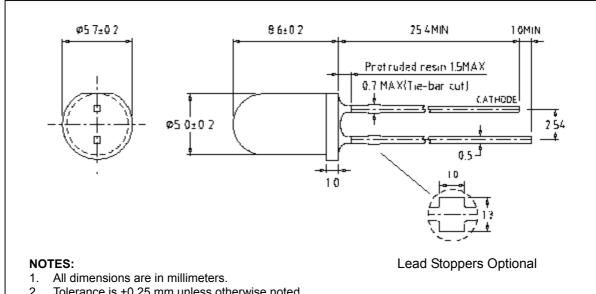


5mm Through-Hole Package

BL-LBVT5N18C series

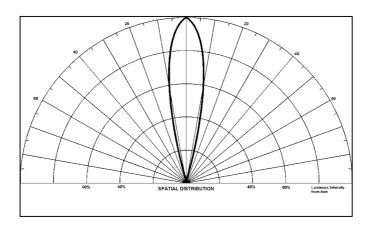
FEATURES	APPLICATIONS
 High Output Violet 420nm λp LED. InGaN on Sapphire (Al₂O₃) die. 5mm round shaped resin mold. Water Clear Lens. Ideal viewing angle for most applications. 	 Epoxy Curing Currency validation / detection Bacteria detection. Medical and forensics. Decorative /Accent Lighting

PACKAGE OUTLINE DIMENSIONS:



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

BEAM RADIATION PATTERN





5mm Through-Hole Package

BL-LBVT5N18C series

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

Parameter	Symbol	Value	Unit			
Continuous Forward Current	l _F	30	mA			
Peak Forward Current (1/10 Duty Cycle, 0.1msec Pulse width)	I _{Fp}	100	mA			
Power Dissipation	P_d	120	mW			
Forward Voltage	V_{f}	3.9	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)

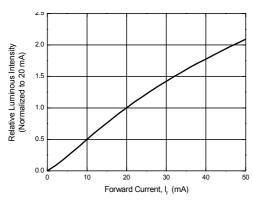
Parameter		Symbol	Min	Тур	Max	Unit
Forward Voltage	F= 20 mA	VF		3.2	3.9	V
Radiant Intensity	F= 20 mA	l _r		65		mW/sr
Peak Wavelength	F= 20 mA	λ_{p}	410	420	425	nm
Spectrum Radiation Bandwidth	F= 20 mA	Δλ		22		nm
Viewing Angle		2 θ 1/2	15	18	21	deg
Reverse Current	V R= 5 V	I _R		10	100	μА

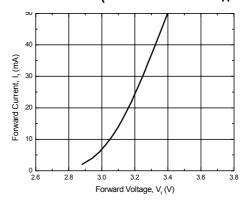
5mm Through-Hole Package

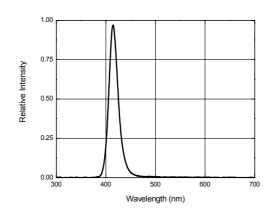


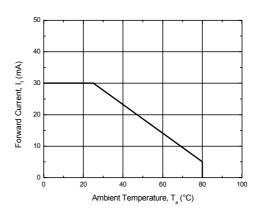


TYPICAL ELECTRICAL CHARACTERISTICS CURVES (at 20 mA DC / T_A = 25°C)









GENERAL NOTES:

- 1. Radiant Intensity (I), a radiometric measurement, is obtained by measuring the LED lamp with a Spectral Goniometric Analyzer. It is the Light Energy (mW) emitted by the LED lamp in the forward axial direction (within a 3° solid angle (sr)).
- 2. Radiant Intensity measurement uncertainty is +/- 15% due to test procedures and equipment variations.
- 3. 01/2 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-LBVT5N18C series

PRODUCT CODE BREAKDOWN

