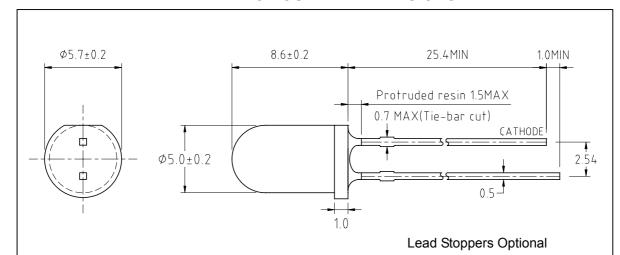


5mm Round Through-Hole Package

BL-LBVT5N30C series

FEATURES	APPLICATIONS
 High output Violet 420nm LED InGaN on Sapphire die. 5mm round resin mold. Water Clear Lens. Wide viewing angles (30°). 	 Decorative /Accent Lighting Miniature Flashlights Key rings and novelties Back or Side lighting. Medical and adhesive curing.

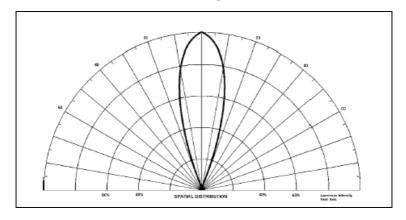
PACKAGE OUTLINE DIMENSIONS:



NOTES:

- 1. All dimensions are in millimeters.
- 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





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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 $T_A = 25$ °C)

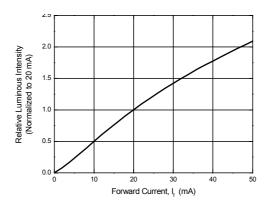
Parameter		Symbol	Min	Тур	Max	Unit
Forward Voltage	 F= 20 mA	V _F		3.2	3.9	V
Peak Wavelength	 F= 20 mA	λ_{p}	415	420	425	nm
Dominant Wavelength	F= 20 mA	$\lambda_{\sf d}$		434		nm
Spectrum Radiation Bandwidth	I F= 20 mA	Δλ		21		nm
Reverse Current	V R= 5 V	l _R			100	μΑ
Viewing Angle		2 θ 1/2		30		deg
Radiant Intensity	I F= 20 mA	I	12	22		mW/sr

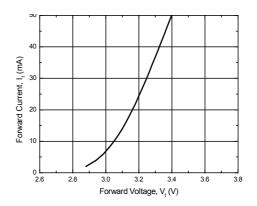
5mm Round Through-Hole Package

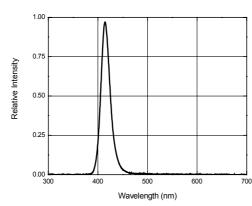


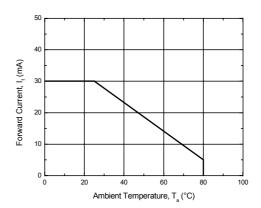
BL-LBVT5N30C series

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 Round Through-Hole Package



BL-LBVT5N30C series

PRODUCT CODE BREAKDOWN

