PRITE-LED Optoelectronics

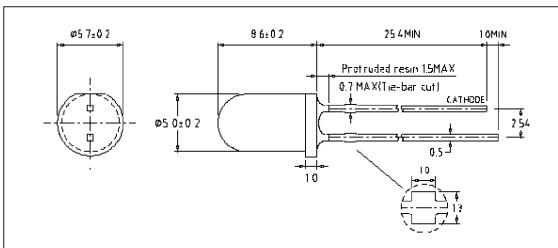
5mm Through-Hole Package

BL-LBVT5N18C series

FEATURES

- High Output Violet 420nm p LED.
- InGaN on Sapphire (Al₂O₃) die.
- 5mm round shaped resin mold.
- Water Clear Lens.
- Ideal viewing angle for most applications.

PACKAGE OUTLINE DIMENSIONS:

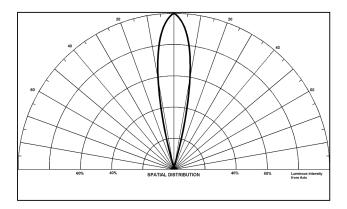


NOTES:

Lead Stoppers Optional

- 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



5mm Through-Hole Package

BL-LBVT5N18C 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	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 $T_A = 25^{\circ}C$)

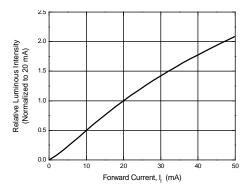
Parameter		Symbol	Min	Тур	Max	Unit
Forward Voltage	F= 20 mA	VF		3.2	3.9	٧
Radiant Intensity	F= 20 mA	l _r		65		mW/sr
Peak Wavelength	F= 20 mA	$\lambda_{\mathbf{p}}$	410	420	425	nm
Spectrum Radiation Bandwidth	F= 20 mA	Δλ		22		nm
Viewing Angle		2 θ 1/2	15	18	21	deg
Reverse Current	V R= 5 V	l R		10	100	μΑ

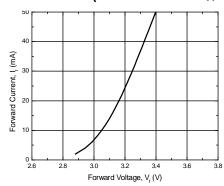


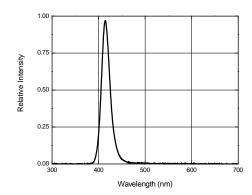
5mm Through-Hole Package

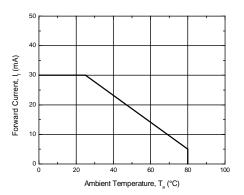
BL-LBVT5N18C series

TYPICAL ELECTRICAL CHARACTERISTICS CURVES (at 20 mA DC / $T_A = 25^{\circ}$ 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.
- 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

