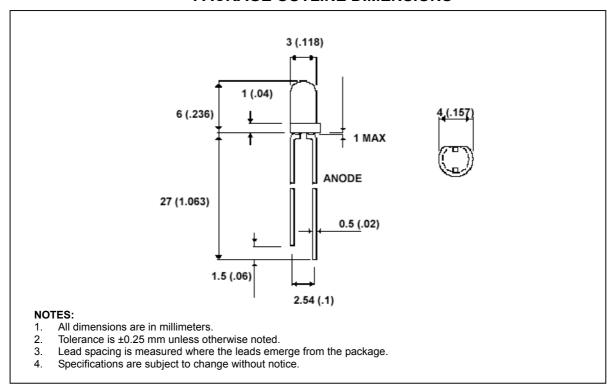


3mm Round Through-Hole Package

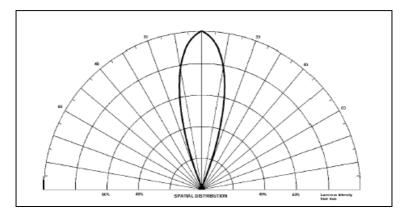
BL-LBVT3N30C series

FEATURES	APPLICATIONS
 High Output Violet LED GaN on Sapphire die. 3mm round resin mold. Water Clear Lens. Wide viewing angles (30°). 	 Epoxy Curing Currency validation / detection Bacteria detection. Medical and forensics. Decorative /Accent Lighting

PACKAGE OUTLINE DIMENSIONS



BEAM RADIATION PATTERN





3mm Round Through-Hole Package

BL-LBVT3N30C series

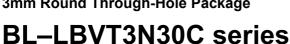
ABSOLUTE MAXIMUN RATING (at $T_A = 25$ °C)

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}	3.6	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)

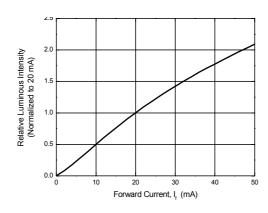
Parameter		Symbol	Min	Тур	Max	Unit
Forward Voltage	F= 20 mA	VF		3.1	3.6	V
Radiant Intensity	F= 20 mA	l _r		21		mW/sr
Peak Wavelength	F= 20 mA	$\lambda_{\mathbf{p}}$	410	420	425	nm
Spectrum Radiation Bandwidth	F= 20 mA	Δλ		22		nm
Viewing Angle		2 θ 1/2		30		deg
Reverse Current	V R= 5 V	I _R		10	100	μА

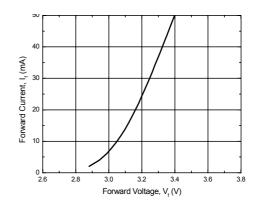
3mm Round Through-Hole Package

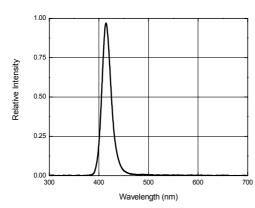


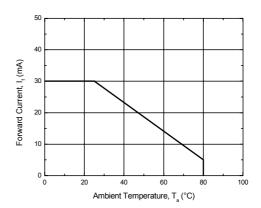


TYPICAL ELECTRICAL CHARACTERISTICS CURVES (at 20 mA DC / T_A = 25°C)









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. 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-LBVT3N30C series

PRODUCT CODE BREAKDOWN

