

LL-1003BC2D-B4-1C

DATA SHEET

QC: Li ENG:LiuGuangYin Prepared By:Wu

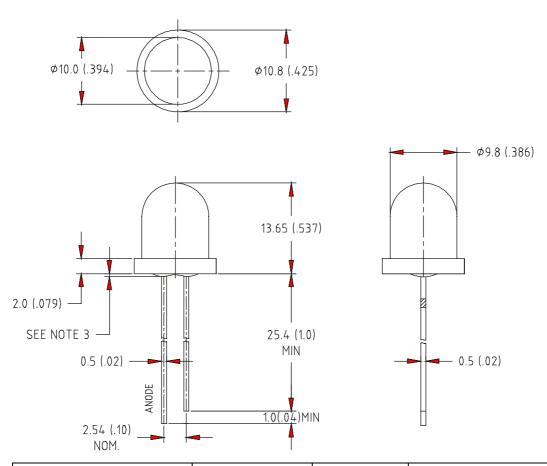
 Part No.
 LL-1003BC2D-B4-1C
 Spec No.
 S/N-050412021D
 Page
 1 of 4



Features:

- ♦ High intensity
- ♦ Normal 10mm diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
LL-1003BC2D-B4-1C	GaInN	Water Clear	Super Bright Blue

Notes:

- All dimensions are in millimeters (inches).
 Tolerance is ±0.25mm(.010") unless otherwise noted.
 Protruded resin under flange is 1.0mm(.04") max.
 Lead spacing is measured where the leads emerge from the package.
 Specifications are subject to change without notice.
- 6. Precautions for ESD:
 - STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
 - This data-sheet only valid for six months.



Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50℃	0.4	mA/℃
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°	°C
Storage Temperature Range	-40°C to +80°	C
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Sec	onds

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	$I_{\rm v}$	2000	3200		mcd	I _f =20mA (Note 1)
Viewing Angle	2 θ _{1/2}		25		Deg	(Note 2)
Peak Emission Wavelength	λp	465	468	475	nm	I _f =20mA
Dominant Wavelength	λd		470		nm	I _f =20mA (Note 3)
Spectral Line Half-Width	Δλ		40		nm	I _f =20mA
Forward Voltage	V_{f}	2.8	3.6	4.0	V	I _f =20mA
Reverse Current	I_R			100	μΑ	V _R =5V

Notes:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Part No. LL-1003BC2D-B4-1C Spec No. S/N-050412021D Page 3 of 4
--



Typical Electrical / Optical Characteristics Curves (25℃ Ambient Temperature Unless Otherwise Noted)

