

LL-100ABC2D-001

DATA SHEET

QC :

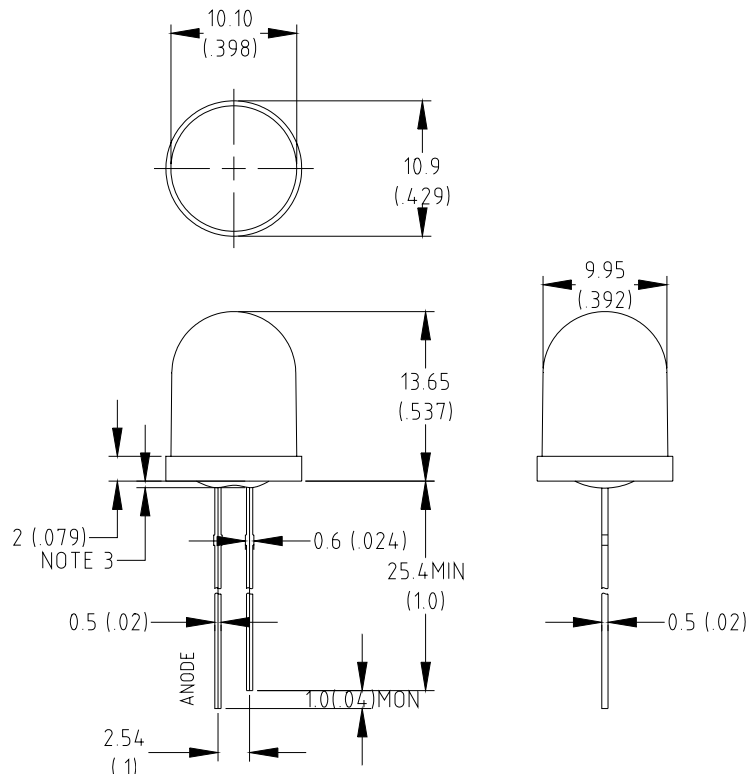
ENG :

Prepared By:

Features:

- ◆ High intensity
- ◆ Normal 10mm diameter package
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
LL-100ABC2D-001	GaInN	White Clear	Super Bright Blue

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm} (.010\text{'})$ unless otherwise noted.
3. Protruded resin under flange is $1.0\text{mm} (.04\text{'})$ max.
4. Lead spacing is measured where the leads emerge from the package.
5. 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.
7. 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 to +80	
Storage Temperature Range	-40 to +80	
Lead Soldering Temperature [4mm(.157") From Body]	260 for 5 Seconds	

Electrical Optical Characteristics at Ta=25

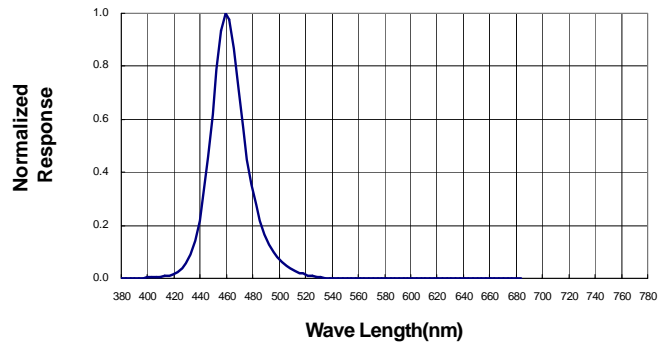
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	1000	2000	4000	mcd	$I_F=20\text{mA}$ (Note 1)
Viewing Angle	$2_{1/2}$	15	20	25	Deg	(Note 2)
Peak Emission Wavelength	ρ	463	468	473	nm	$I_F=20\text{mA}$
Dominant Wavelength	d	460	470	480	nm	$I_F=20\text{mA}$ (Note 3)
Spectral Line Half-Width		20	25	30	nm	$I_F=20\text{mA}$
Forward Voltage	V_F	2.8	3.5	4.0	V	$I_F=20\text{mA}$
Reverse Current	I_R	---	---	100	μA	$V_R=5\text{V}$

Notes:

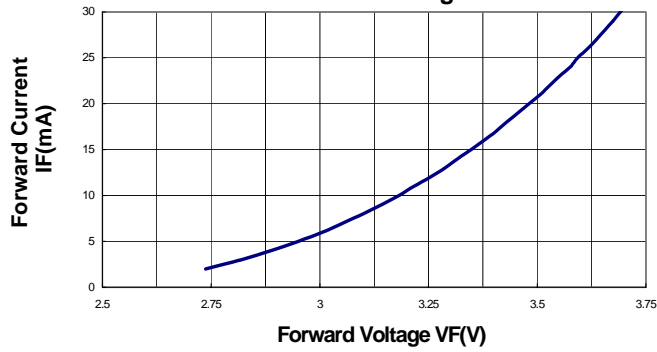
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (d) is derived from the CIE chromaticity diagram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

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

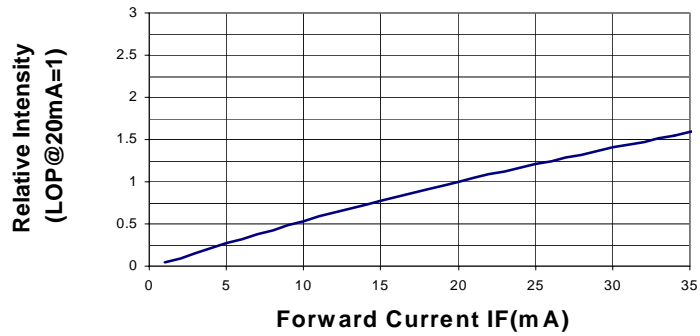
Spectral Radiance (Peak @ 468nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern

