

LL-504BC2L-001

DATA SHEET

QC: ENG: Prepared By:

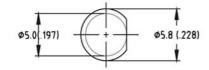
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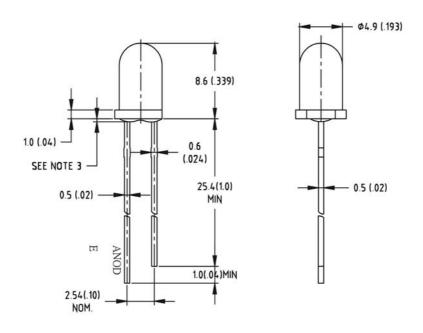


Features

- High intensity
- Standard T-1 3/4 diameter package
- Wide viewing angle
- General purpose leads
- Reliable and rugged

Package Dimension:





Part NO.	Material	Lens Color	Source Color	
LL-504BC2L-001	GaN/SiC	Water Clear	Blue	

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(.010")$ mm unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

and machinery must be properly grounded.

6. Caution in ESD: Siatic Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment

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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit		
Power Dissipation	120	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA		
Continuous Forward Current	35	mA		
Derating Linear From 50°C	0.4	mA/°C		
Reverse Voltage	rerse Voltage 5			
Operating Temperature Range	-40°C to +80°	-40°C to +80°C		
Storage Temperature Range	-40°C to +80°	-40°C to +80°C		
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seco	260°C for 5 Seconds		

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	600	1200	2000	mcd	I=20mA (Note 1)	
Viewing Angle	2 \theta 1/2		25	30	Deg	(Note 2)	
Peak Emission Wavelength	λр	460	465	470	nm	I=20mA I=20mA (Note 3)	
Spectral Line Half-Width	Δλ		25		nm	I=20mA	
Forward Voltage	V _F	2.8	3.6	4.0	V	I=20mA	
Reverse Current	IR			100	μA	V _R =5V	

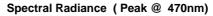
Note:

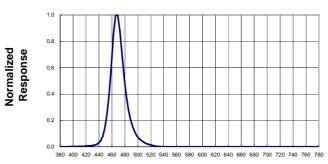
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. Peak Emission wavelength (λ p) is derived from the CIE chromaticity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

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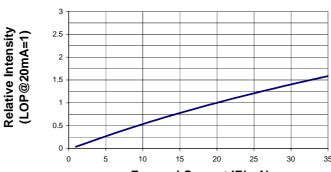
Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)





Wave Length(nm)

Relative Luminous Intensity vs Forward Current



Forward Current IF(mA)
Forward Current
vs Forward Voltage

