

LL-503BC1E-005

DATA SHEET

QC: ENG: Prepared By:

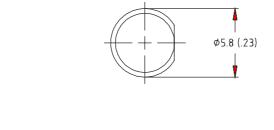
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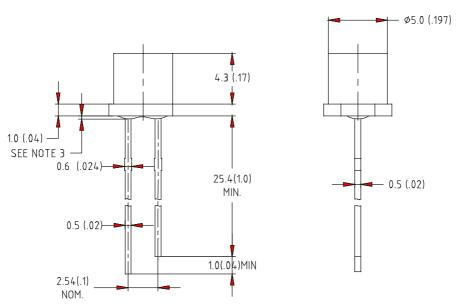


Features

- ♦ High intensity
- ♦ 5mm diameter cylinder package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ◆ Reliable and rugged

Package Dimension:





Part NO.	Material	Lens Color	Source Color
LL-503BC1E-005	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.
- 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 and machinery must be properly grounded.

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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit	
Power Dissipation	120	mW	
Peak Forward Current (1/10 Duty Cycle, O.1ms Pulse Width)	100	mA	
Continuous Forward Current	35	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 Seconds		

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv		1000	1500	mcd	$I_{\text{F}}=20\text{mA}$ (Note 1)	
Viewing Angle	2 θ 1/2		120		Deg	(Note 2)	
Peak Emission Wavelength	λр	460	465	470	nm	$I_{\text{F}}=20\text{mA}(\text{Note }3)$	
Spectral Line Half-Width	Δλ		25		nm	$I_{\scriptscriptstyle F}\!\!=\!\!20$ mA	
Forward Voltage	$V_{\scriptscriptstyle F}$	2.8	3. 2	3.8	V	$I_{\scriptscriptstyle F}\!\!=\!\!20\text{mA}$	
Reverse Current	$I_{\scriptscriptstyle R}$			100	μД	$V_R=5V$	

Note:

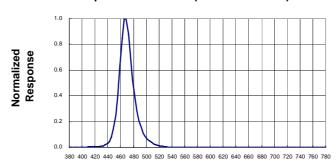
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{\ \text{1/2}}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. Peak Emission wavelength (λ p) is derived from the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

Spectral Radiance (Peak @ 470nm)



Wave Length(nm)

Relative Luminous Intensity

