



DATA SHEET

QC:

Prepared By:

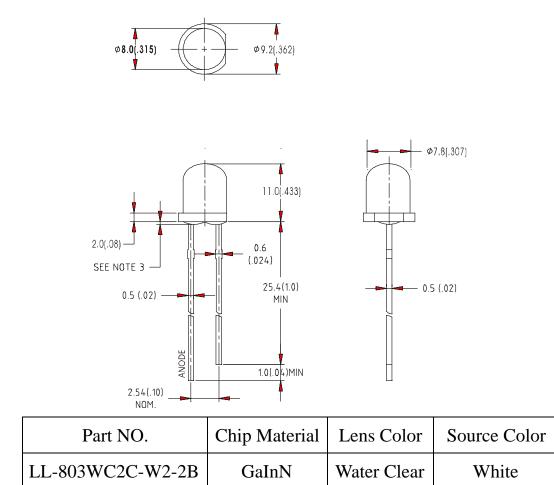
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Features:

- High intensity
- Normal 8mm diameter package
- Small viewing angle
- General purpose leads
- Reliable and rugged

Package Dimensions:



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") 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.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.

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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	25	mA			
Derating Linear From 50°C	0.4	mA/°C			
Reverse Voltage	5	V			
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 Sec	260°C for 5 Seconds			

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	4000	4500	5000	mcd	I=20mA (Note 1)
Viewing Angle	2 <i>H</i> 1/2	10	15	20	Deg	(Note 2)
$x = \frac{X}{X + Y + Z} = \frac{\operatorname{Re} d}{\operatorname{Re} d + \operatorname{Green} + Blue}$	Х	0.24	0.28	0.34		IF=20mA (Note 3)
$y = \frac{Y}{X + Y + Z} = \frac{Green}{\operatorname{Re} d + Green + Blue}$	у	0.24	0.28	0.34		I=20mA (Note 3)
Forward Voltage	V_{F}	3.0	3.6	4.0	V	I=20mA
Reverse Current	Ir			100	μA	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.

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

