

LL-803YD2C

DATA SHEET

QC: ENG: Prepared By:

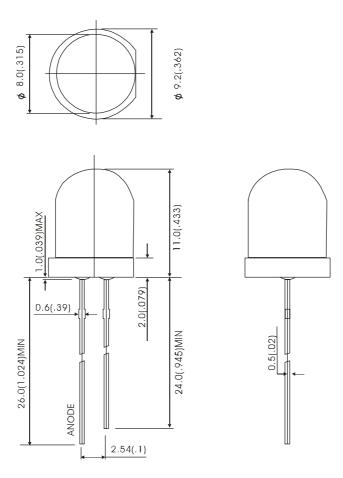
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Features

- ♦ Normal 8mm diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Part NO. Chip Material		Source Color	
LL-803YD2C	AlGalnP	Yellow Diffused	Yellow	

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. 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°C		
Storage Temperature Range	-40°C to +80°C		
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds		

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	40	45		mcd	I=20mA (Note 1)	
Viewing Angle	2 \theta 1/2		40		Deg	(Note 2)	
Peak Emission Wavelength	λр	583	588	593	nm	I==20mA	
Dominant Wavelength	λd	585	590	595	nm	I _F =20mA (Note 3)	
Spectral Line Half-Width	Δλ	30	35	40	nm	I==20mA	
Forward Voltage	V _F	1.6	2.1	2.6	V	I=20mA	
Reverse Current	IR			100	μA	V _R =5V	

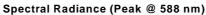
Note:

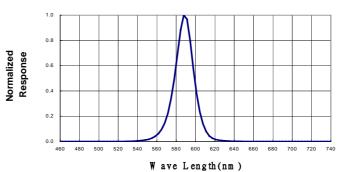
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity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

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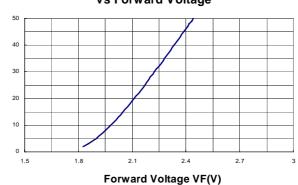
Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)





Forward Current vs Forward Voltage





Relative Luminous Intensity vs Forward Current

Relative Intensity (LOP@20mA=1)

