LL-1003UC2D-001

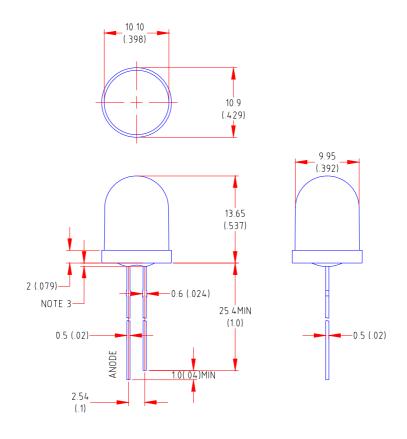
DATA SHEET

QC: ENG: Prepared By:

Features

- ♦ High intensity
- ♦ 10mm diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color		
LL-1003UC2D-001	Water Clear	Ultra Red		

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

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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	40	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

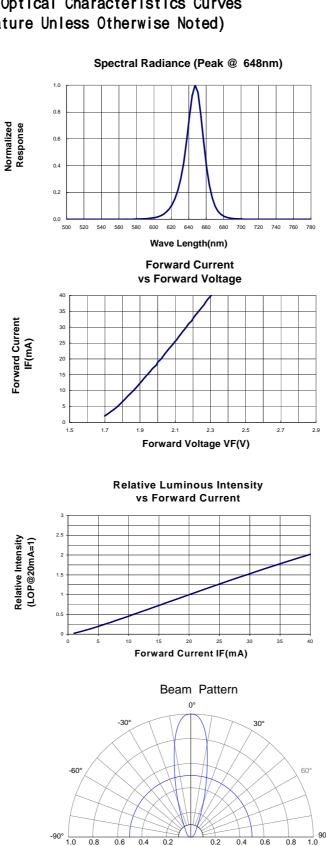
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	lv	800	1700	3500	mcd	I=20mA (Note 1)	
Viewing Angle	2 1/2	24	30	36	Deg	(Note 2)	
Peak Emission Wavelength	р	643	648	653	nm	I=20mA	
Dominant Wavelength	d	631	636	641	nm	I=20mA (Note 3)	
Spectral Line Half-Width		18	23	28	nm	I==20mA	
Forward Voltage	VF	1.6	2.0	2.6	V	I=20mA	
Reverse Current	l R			100	μΑ	V _R =5V	

Note:

- 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.

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



Relative Intensity (LOP@MAX=1)