

LL-503ID2E

DATA SHEET

QC: ENG: Prepared By:

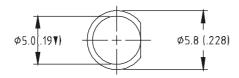
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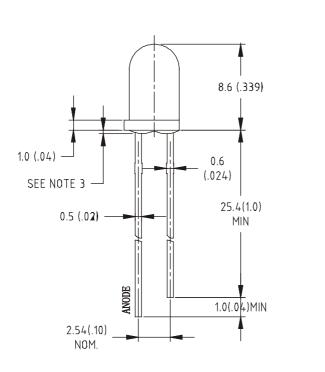


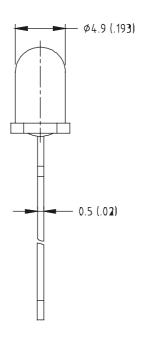
Features

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

Package Dimension:







Part NO.	Lens Color	Source Color		
LL-503ID2E	Orange Diffused	Orange		

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	50	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℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	40	45		mcd	I=20mA (Note 1)	
Viewing Angle	2 \theta 1/2		50		Deg	(Note 2)	
Peak Emission Wavelength	λр		630		nm	I=20mA	
Dominant Wavelength	λd		631		nm	I _F =20mA (Note 3)	
Spectral Line Half-Width	Δλ		42		nm	I==20mA	
Forward Voltage	V _F		2.0	2.8	V	I=20mA	
Reverse Current	IR			100	μA	V _R =5V	

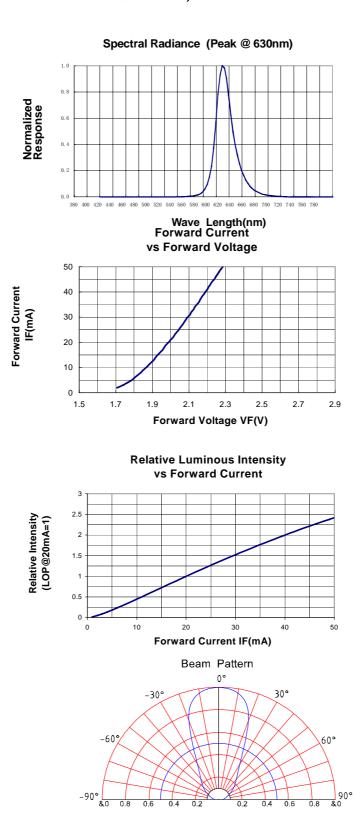
Note:

- 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)



Relative Intensity (LOP @ MAX=1)

-90°