

# LL-503UAC2E-001

# DATA SHEET

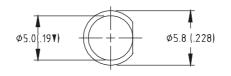
QC:	C: ENG:		Prepared By		
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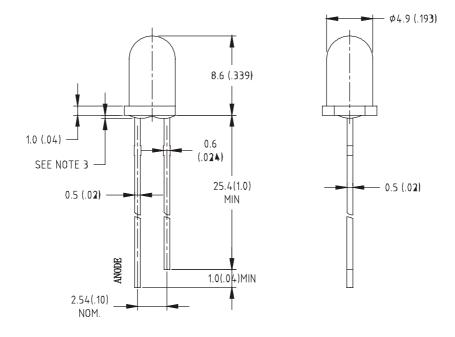


## Features

- ♦ High intensity
- $\blacklozenge$  Standard T-1 3/4 diameter package
- Wavelenght  $\lambda p=610$ nm
- ♦ General purpose leads
- ◆ Reliable and rugged

#### **Package Dimension:**





Part NO.	Material	Lens Color	Source Color	
LL-503UAC2E-001	GaAsp/GaP	Water clear	Ultra Amber	

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

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	600	1200	3000	mcd	IF=20mA (Note 1)
Viewing Angle	2 <i>O</i> 1/2		25	30	Deg	(Note 2)
Peak Emission Wavelength	λp		610		nm	I=20mA
Dominant Wavelength	λd		605		nm	IF=20mA (Note 3)
Spectral Line Half-Width	$ riangle \lambda$		35		nm	I=20mA
Forward Voltage	$V_{\text{F}}$		2.1	2.6	V	I=20mA
Reverse Current	Ir			100	μA	V <sub>R</sub> =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 ( $\lambda$  d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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