

LL-503YC2E-011

DATA SHEET

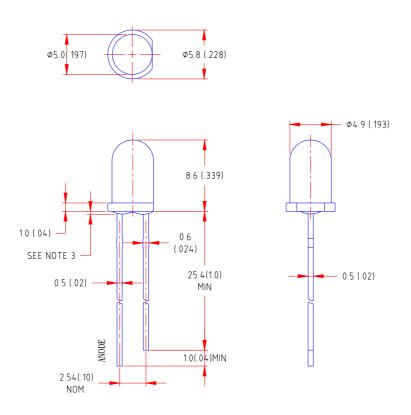
QC: ENG: Prepared By:



Features

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

Package Dimension:



Part NO.	Chip Material	Lens Color	Source Color
LL-503YC2E-011	AlGaInP	Water Clear	Super Bright 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

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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	35	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	3000	6800	14000	mcd	I _F =20mA (Note 1)
Viewing Angle	2 heta 1/2	11	16	21	Deg	(Note 2)
Peak Emission Wavelength	λр	587	592	597	nm	I _F =20mA
Dominant Wavelength	λd	584	590	596	nm	I _F =20mA (Note 3)
Spectral Line Half-Width	$\triangle \lambda$	16	20	25	nm	$I_{\text{F}} = 20\text{mA}$
Forward Voltage	V_{F}	1.8	2. 25	2.8	V	I _F =20mA
Reverse Current	IR			100	μA	V _R =5V

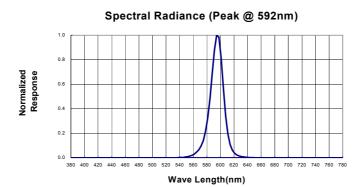
Note:

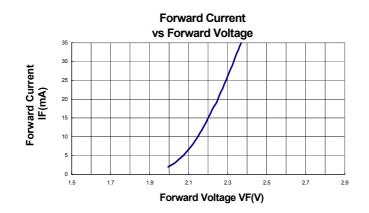
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λd) is derived from the CIE chromaticity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

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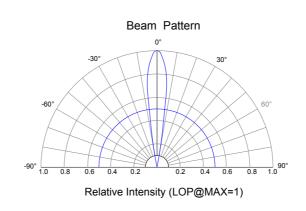
Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)







Relative Luminous Intensity



Forward Current IF(mA)