

LL-503YD2E-045

DATA SHEET

QC: ENG: Prepared By:

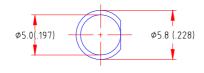
Part No. LL-503YD2E-045 Spec No. S/N-02032103D Page 1 of 4

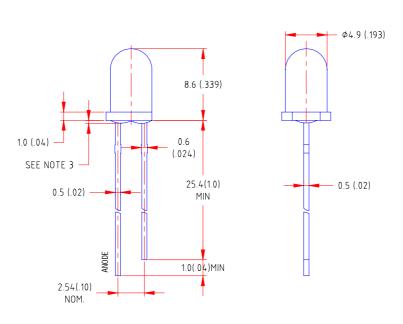


Features

- ♦ 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-503YD2E-045	GaAsP	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.



Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Uni t	
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.	Uni t	Test Condition	
Luminous Intensity	Iv	50	100	200	mcd	I _F =20mA (Note 1)	
Viewing Angle	2 <i>H</i> 1/2	26	31	36	Deg	(Note 2)	
Peak Emission Wavelength	λр	583	588	593	nm	I ==20mA	
Dominant Wavelength	λd	584	589	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	2.5	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. $\theta_{1/2}$ 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.

Part No.	LL-503YD2E-045	Spec No.	S/N-02032103D	Page	3 of 4
----------	----------------	----------	---------------	------	---------------



Typical Electrical / Optical Characteristics Curves $(25^{\circ}C$ Ambient Temperature Unless Otherwise Noted)

