

LL-504WC2E-W2-2DC-T

DATA SHEET

QC:Li

ENG:Liu

Prepared By: Wu

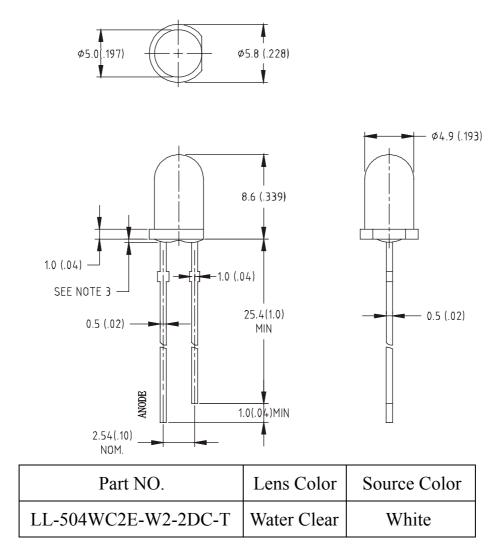
 Part No.
 LL-504WC2E-W2-2DC-T
 Spec No.
 S/N-050104011S
 Page
 1 of 4



Features

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

Package Dimension:



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. Caution in ESD:

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED.All devices, equipment and machinery must be properly grounded.

 Part No.
 LL-504WC2E-W2-2DC-T
 Spec No.
 S/N-050104011S
 Page
 2 of 4



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

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	12000	18000		mcd	I _f =20mA (Note 1)
Viewing Angle	$2\theta_{1/2}$	17	22	27	Deg	(Note 2)
$x = \frac{X}{X + Y + Z} = \frac{\operatorname{Re} d}{\operatorname{Re} d + \operatorname{Green} + Blue}$	Х		0.29			$I_F=20mA$ (Note 3)
$y = \frac{Y}{X + Y + Z} = \frac{Green}{\text{Re}d + Green + Blue}$	у		0.28			$I_F=20mA$ (Note 3)
Forward Voltage	\mathbf{V}_{F}	2.8	3.6	4.0	V	I _F =20mA
Reverse Current	I _R			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. It use many parameters that correspond to the CIE 1931 2°. X,Y, and Z are CIE 1931 2°values of Red, Green and Blue content of the measurement.



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

