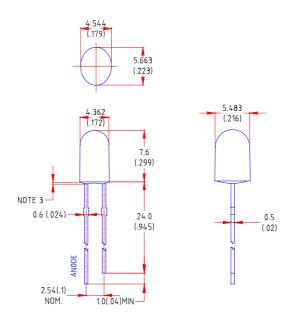


Features

- ♦ High intensity
- ♦ 5x4mm diameter ellipse package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color		
LL-543WC1Q-001	Water Clear	White		

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:

Siatic 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.

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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Uni t	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, O.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°C

Parameter	Symbol	Min.	Тур.	Max.	Uni t	Test Condition	
Luminous Intensity	Iv		800		mcd	I _f =20mA (Note 1)	
Viewing Angle	2θ X(Axis)		60		Deg	(Note 2)	
	1/2 Y(Axis)		30		ьеg		
$x = \frac{X}{X + Y + Z} = \frac{\operatorname{Re} d}{\operatorname{Re} d + \operatorname{Green} + Blue}$	х		0.27			I _F =20mA (Note 3)	
$y = \frac{Y}{X + Y + Z} = \frac{Green}{\text{Re } d + Green + Blue}$	у		0.27			I _F =20mA (Note 3)	
Forward Voltage	$V_{\scriptscriptstyle F}$	2.8	3.7	4.5	V	I _F =20mA	
Reverse Current	I _R			100	μΑ	V _R =5V	

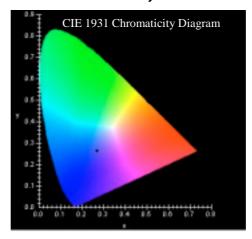
Note:

- 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. 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.

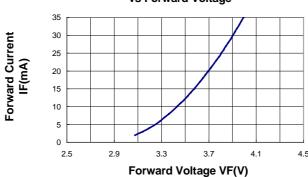
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Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)







Relative Luminous Intensity vs Forward Current

