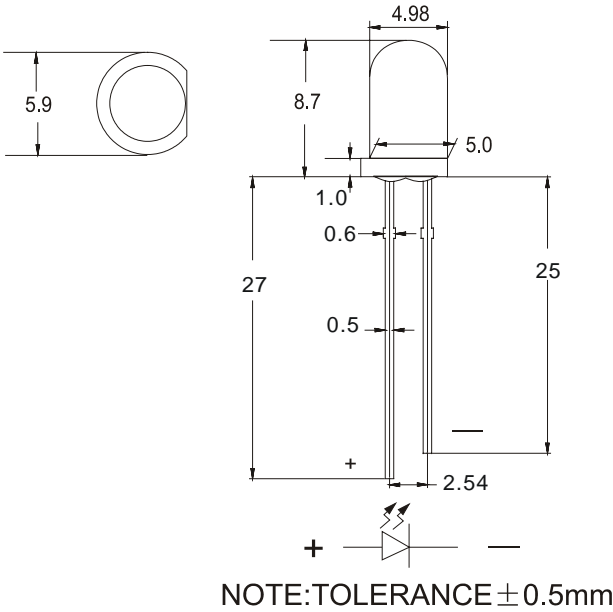# Features

◆ Standard 5mm diameter package

◆ Wide viewing angle

◆ General purpose leads

◆ Reliable and rugged

Package Dimension:

NOTE:TOLERANCE±0.5mm

Part NO.	Lens Color	Source Color
5G4VC-D15V515	Water Clear	Super Bright Green

Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.25(.10″) mm unless otherwise noted.

3. Protruded resin under flange is 1.0mm(.04″) max.

4. Lead spacing is measure 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.

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	30	mA
Derating Linear From 50℃	0.4	mA/℃
Reverse Voltage	5	V
Operating Temperature Range	-40℃ to +80℃	
Storage Temperature Range	-40℃ to +80℃	
Lead Soldering Temperature [4mm(.157″) From Body]	260℃ for 5 Seconds	

Electrical Optical Characteristics: at Ta=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	12000	---	16000	mcd	I_F=20mA(Note 1)
Viewing Angle	$2\theta_{1/2}$	---	15	---	Deg	(Note 2)
Peak Emission Wavelength	λ_P	515	520	525	nm	I_F=20mA
Dominant Wavelength	λ_d	---	515	---	nm	I_F=20mA(Note 3)
Spectral Line Half-Width	$\triangle\lambda$	---	30	---	nm	I_F=20mA
Forward Voltage	V_F	3.0	3.2	3.3	V	I_F=20mA
Reverse Current	I_R	---	---	10	μA	V_R=5V

Notes:

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.

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

Spectral Radiance(Peak@525nm)

Normalized Response vs Wave Length(nm)

Forward Current vs Forward Voltage

Forward Current If (mA) vs Forward Voltage Vf (V)

Relative Luminous Intensity vs Forward Current

Relative Intensity (LOP@20mA=1) vs Forward Current If (mA)

Beam Patter

0°
-30°   30°
-60°   60°
-90°   90°
1.0 0.8 0.6 0.4 0.2   0.2 0.4 0.6 0.8 1.0
Relative Intensity

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