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Features

- ◆ Low power consumption
- ◆ High efficiency
- ◆ Low current requirement
- ◆ Choice of various viewing angles
- ◆ Versatile mounting on P.C. Board or panel
- ◆ Reliable and robust
- ◆ Pb free
- ◆ The product itself will remain within RoHS compliant version

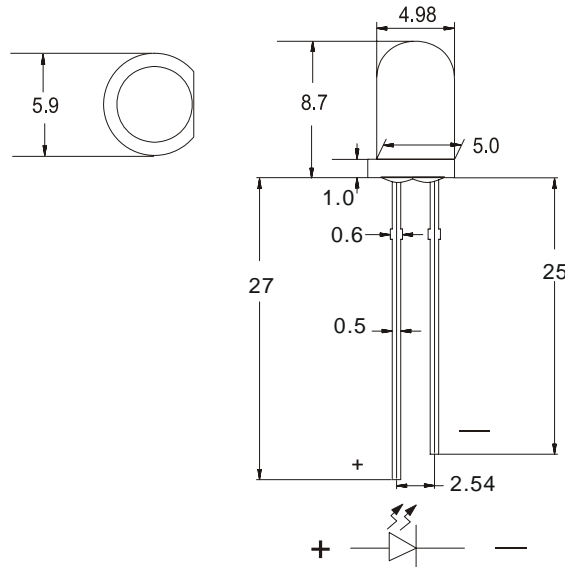
Descriptions

- ◆ The series is specially designed for applications requiring higher brightness.
- ◆ The led lamps are available with different colors, intensities.

Applications

- ◆ TV set ◆ Monitor ◆ Telephone ◆ Computer ◆ Circuit board ◆ Traffic light.

Package Dimension:



NOTE: TOLERANCE $\pm 0.5\text{mm}$

Part NO.	Material	Lens Color	Source Color
5G4VC-D22W505	InGaN	Water Clear	Bluish Green

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerances unless Dimension $\pm 0.25\text{mm}$.
3. An epoxy meniscus may extend about 1.5mm (0.059") down to the lead.

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Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	MAX.	Unit
Power Dissipation	P _d	100	mW
Transient Peak Current(1/10 Duty Cycle,0.1ms Pulse Width)	I _{FP}	200	mA
Continuous Forward Current	I _F	30	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	Topr	-40°C to +80°C	
Storage Temperature Range	Tstg	-40°C to +85°C	
Lead Soldering Temperature [4mm(.157") From Body]	Tsol	260°C for 5 Seconds	

Electrical Optical Characteristics: at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V _F	2.8		3.6	V	I _F =20mA
Luminous Intensity	I _v	16000		18000	mcd	I _F =20mA
Dominant Wavelength	λ _d	500		505	nm	I _F =20mA
Peak Emission Wavelength	λ _P		505		nm	I _F =20mA
Spectral Line Half-Width	△λ		30		nm	I _F =20mA
Reverse Current	I _R			10	μA	V _R =5V
Viewing Angle	θ	20	22	25	deg	I _F =20mA

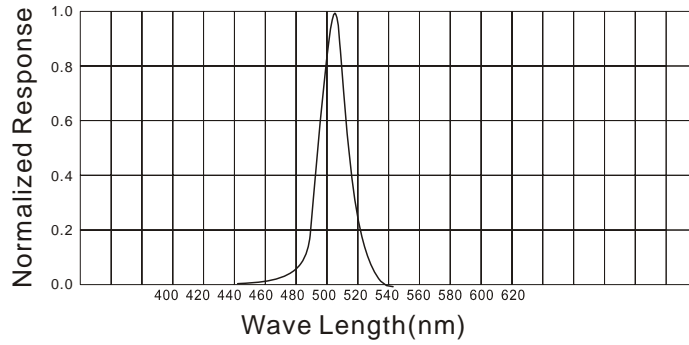
Notes:

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

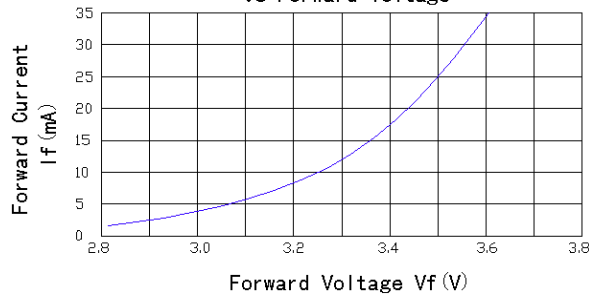
Typical Electrical/Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

Wave Length(nm) Pure Green@ $\lambda_p = 505$

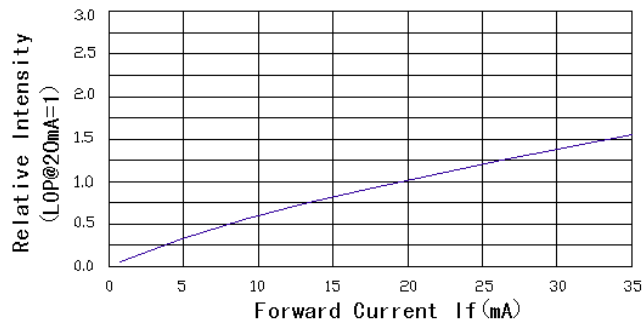
Spectral Radiance Peak 505



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Patter

