Part No.	5G4VC-A15X515	Spec No.		Page	1 of 3
----------	---------------	----------	--	------	--------

Features

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

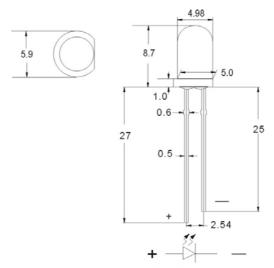
Descriptions

- ◆ 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

Package Dimension:



NOTE:TOLERANCE ± 0.5mm

Part NO.	Material	Lens Color	Source Color
5G4VC-A15X515	InGaN	Water Clear	Pure Green

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerances unless Dimension ±0.25mm.
- 3. An epoxy meniscus may extend about 1.5mm (0.059") down to the lead.

Part No. 5G4VC-A15X515	Spec No.	Page	1 of 3
------------------------	----------	------	--------

Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	MAX.	Unit
Power Dissipation	P_{D}	120	mW
Peak Forward Current (1/10 Duty Cycle,0.1ms Pulse Width)	I _{FP}	100	mA
Continuous Forward Current	I _F	30	mA
Reverse Voltage	V_{R}	5	V
Operating Temperature Range	Topr	-40°C to +85°C	
Storage Temperature Range	Tstg	-40°C to +100°C	
Lead Soldering Temperature [4mm(.157") From Body]	Tsol	260°C for 5 Seconds	

Electrical Optical Characteristics: at Ta=25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	I _V		18000		mcd	I _F =20mA
Viewing Angle	2 θ 1/2		15		deg	I _F =20mA
Peak Emission Wavelength	λ _P		510		nm	I _F =20mA
Dominant Wavelength	λ _d	515		525	nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Forward Voltage	V_{F}	3.0	3.3	3.8	V	I _F =20mA
Reverse Current	I _R			100	μА	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 (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength, which defines the color of the device.

ı							
	Part No.	5G4VC-A15X515	Spec No.		Page	2 of 3	

Typical Electrical-Optical Characteristics Curves Wave Length(nm) Green @ λ p=510 Relative Emission Intensity 1.0 0.8 0.6 0.4 0.2 0.0 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 **Iuminous Intensity vs** Forward Voltage Vs **Ambient Temperature Forward Current** 50 3.0 Relative Luminaus Intensity Forward Current IF (mA) 2.5 40 2.0 30 1.5 20 1.0 10 0.5 0 0 -60 -40 -20 2.8 3.0 3.4 4.2 4.6 3.8 0 20 40 60 80 100 Forward Voltage (VF) Ambient Temperature Ta (°C) **Iuminous Intensity vs Forward Current Forward Current Derating Curve** 2.0 50 Relative Luminaus Intensity Forward Current IF (mA) 40 1.5 30 1.0 20 0.5 10 20 30 40 50 20 40 60 100 Forward Current IF (mA) Ambient Temperature Ta (°C) **Beam Patter** 0 10 -10 30 -30 -40 40 -50 -60 60 -70 70 80 -80 1.0 0.8 0.2 0.4 0.6 0.8 1.0 0.2 0 Relative Intensity

Part No.	5G4VC-A15X515	Spec No.		Page	3 of 3
----------	---------------	----------	--	------	--------