LL-253ZC1G-001

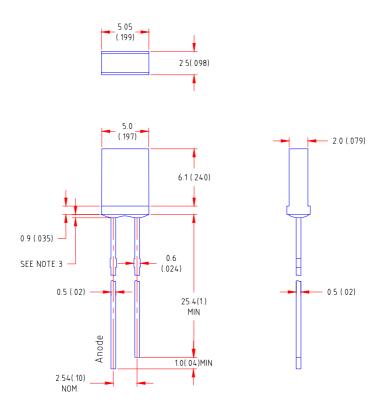
**DATA SHEET** 

QC: ENG: Prepared By:

#### **Features**

- ♦ 2x5mm rectangular package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ♦ Reliable and rugged

# **Package Dimension:**



Part NO.	Chip Material	Lens Color	Source Color
LL-253ZC1G-001	GaInN	Water Clear	Super Bright True Green

#### **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.

## **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	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**

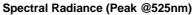
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	lv	160	340	600	mcd	I=20mA (Note 1)	
Viewing Angle	2 1/2	70	80	90	Deg	(Note 2)	
Peak Emission Wavelength	р	520	525	530	nm	I=20mA	
Dominant avelength	d	520	534	544	nm	I=20mA (Note 3)	
Spectral Line Half-Width		31	36	41	nm	I=20mA	
Forward Voltage	V <sub>F</sub>	2.8	3.2	4.0	V	I=20mA	
Reverse Current	<b>l</b> R			100	μΑ	V <sub>R</sub> =5V	

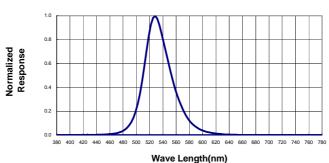
#### Note:

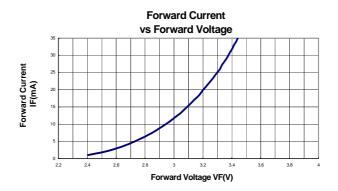
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2.  $_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (d) is derived from the CIE chromaticity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

Part No.	LL-253ZC1G-001	Spec No.	S/N-02020225D	Page	3 <b>of</b> 4
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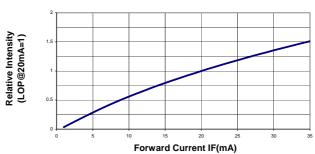
# Typical Electrical / Optical Characteristics Curves (25 Ambient Temperature Unless Otherwise Noted)



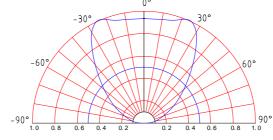




# Relative Luminous Intensity vs Forward Current



#### Beam Pattern



Relative Intensity (LOP @ MAX=1)