

Preliminary

LL-253ZM2F-002

DATA SHEET

QC :

ENG :

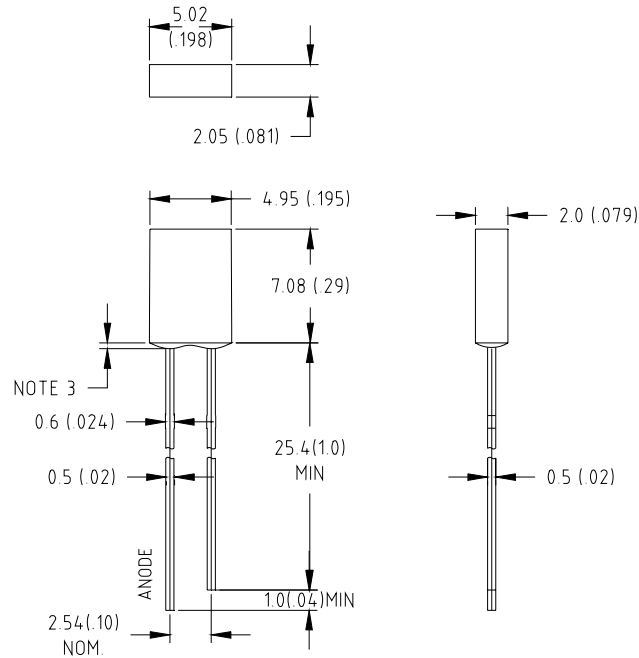
Prepared By:

Part No.	LL-253ZM2F-002	Spec No.	S/N-01082804S	Page	1 of 4
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Features:

- ◆ High intensity
- ◆ 2*5mm cylinder package
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
LL-253ZM2F-02	GaNN	White Diffused	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. Precautions for ESD:
 STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
7. This data-sheet only valid for six months.

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

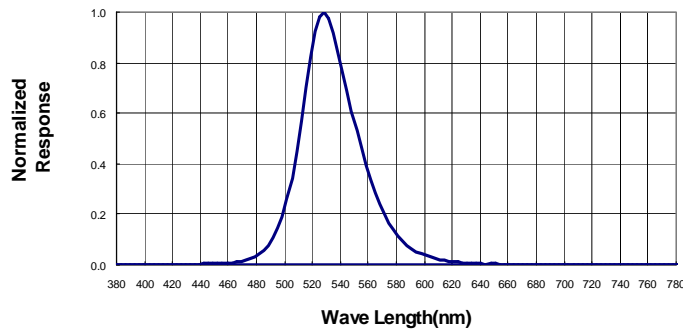
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	80	180	320	mcd	I _F =20mA (Note 1)
Viewing Angle	2 _{1/2}	135	145	155	Deg	(Note 2)
Peak Emission Wavelength	λ	520	525	530	nm	I _F =20mA
Dominant Wavelength	λ _d	522	530	540	nm	I _F =20mA (Note 3)
Spectral Line Half-Width		30	35	40	nm	I _F =20mA
Forward Voltage	V _F	2.8	3.2	4.2	V	I _F =20mA
Reverse Current	I _R	---	---	100	μA	V _R =5V

Note:

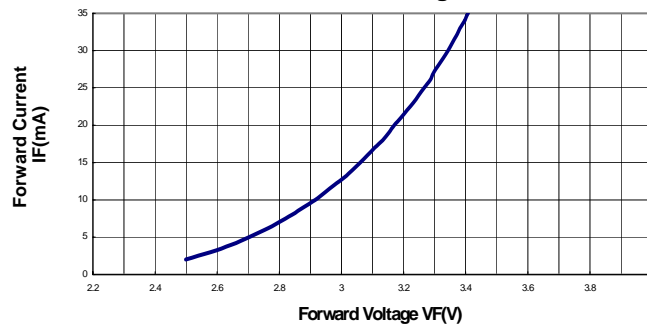
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. _{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram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

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

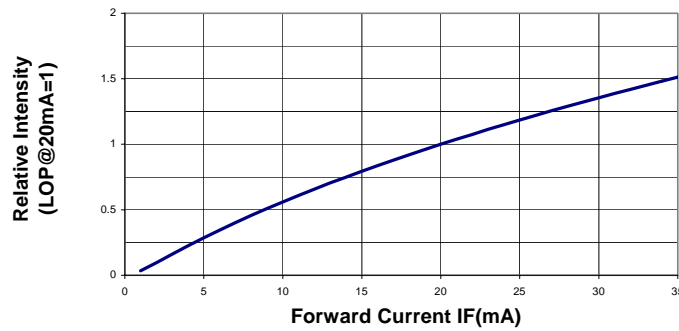
Spectral Radiance (Peak @525nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern

