LL-253BD1G-002

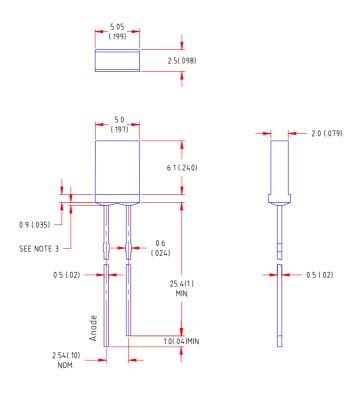
DATA SHEET

QC: ENG: Prepared By:

Features

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

Package Dimension:



Part NO.	Part NO. Chip Material		Source Color	
LL-253BD1G-002	GaInN	Blue Diffused	Super Bright Blue	

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.

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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

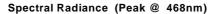
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	lv	55	120	250	mcd	I=20mA (Note 1)	
Viewing Angle	2 1/2	136	146	156	Deg	(Note 2)	
Peak Emission Wavelength	р	463	468	473	nm	I=20mA	
Dominant Wavelength	d	460	470	480	nm	I _F =20mA (Note 3)	
Spectral Line Half-Width		33	38	43	nm	I=20mA	
Forward Voltage	V _F	2.8	3.6	4.0	V	I=20mA	
Reverse Current	I R			100	μΑ	V _R =5V	

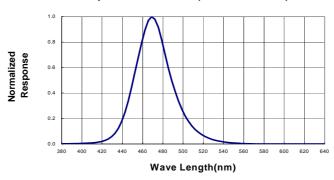
Note:

- 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 (d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

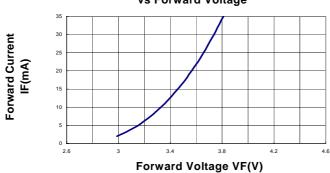
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Typical Electrical / Optical Characteristics Curves (25 Ambient Temperature Unless Otherwise Noted)

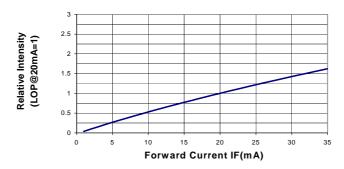




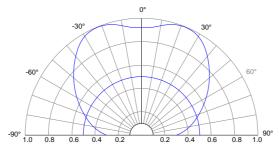
Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current







Relative Intensity (LOP@MAX=1)