

LL-304BM2E-001

DATA SHEET

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Prepared By:

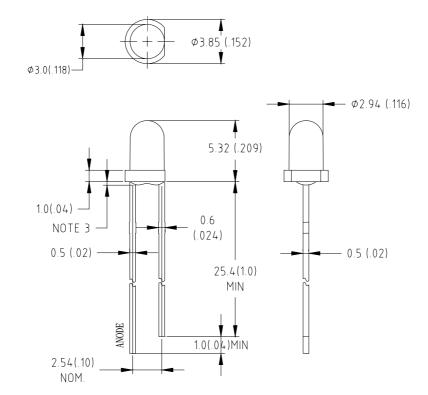
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Features:

- High intensity
- Standard T-1 diameter package
- General purpose leads
- Reliable and rugged

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
LL-304BM2E-001	InGaN	White Diffused	Super Bright Blue

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm (.010") 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.

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Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Unit		
Power Dissipation	120	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA		
Continuous Forward Current	30 mA			
Derating Linear From 50°C	0.4	mA/°C		
Reverse Voltage	5 V			
Operating Temperature Range	-40°C to +80	-40°C to +80°C		
Storage Temperature Range	-40°C to +80°C			
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds			

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	I v	140	310	690	mcd	$I_f=20mA$ (Note 1)
Viewing Angle	2 heta 1/2	40	45	50	Deg	(Note 2)
Peak Emission Wavelength	λp	463	468	473	Nm	If=20mA
Dominant Wavelength	λd	464	470	476	Nm	$I_f=20mA$ (Note 3)
Spectral Line Half-Width	$ riangle \lambda$	20	25	30	Nm	If=20mA
Forward Voltage	$V_{\rm f}$	2.8	3.5	4.0	V	If=20mA
Reverse Current	IR			100	μA	$V_R=5V$

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

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