

5mm Blue InGaN Ultra Bright LED

LC503QBL1-15H-A

Features

5mm Package High Luminous Intensity High Optical Power All Plastic Mold Type Water Clear Lens

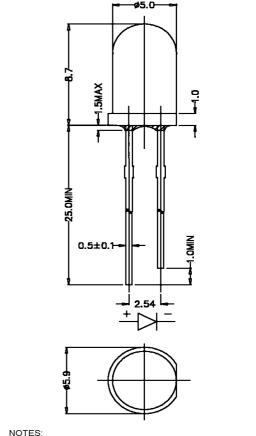


Applications

Decorative Lighting General Purpose Lighting **Indoor Message Centers** Instrumentation Medical Equipment

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit	
Forward Current	lF	25	mA	
Reverse Voltage	VR	5	V	
Power Dissipation	Pp	105.00	mW	
Operating Temperature	Topr	-40 ~ + 95	°C	
Storage Temperature	Tstg	-40 ~ + 100	ပိ	
Soldering Temperature	Tsol	260	ပိ	
Soldering Time	_	for 3 sec. max	-	



- 1. All Dimensions are in mm. Tolerance is ±0.25mm.
- 2. An Epoxy Meniscus may extend about 1.5mm down the leads. 3. Burr around bottom of epoxy may be 0.5mm Max.

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Forward Voltage	VF	Ir=20mA	-	3.60	4.20	V
Reverse Current	lR	V _R =5V	-	-	100	μΑ
Luminous Intensity	lv	I=20mA	3000	7000	-	mcd
Viewing Angle	$2\theta^{1/2}$	-	-	15°	-	deg.
Peak Wavelength	λр	I=20mA	-	465	-	nm
Dominant Wavelength	λd	I=20mA	-	470	-	nm
Spectral Line Half Width	Δλ	I=20mA	_	28	-	nm

Specifications are subject to change without notice.

Company Headquarters 120 Broadway Menands, New York 12204

Toll Free: 800.984.5337 Fax: 518.432.7454



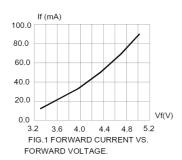
West Coast Sales Office

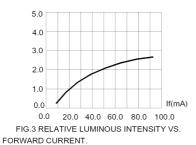
950 South Coast Drive, Suite 265 Costa Mesa, California 92626 Toll Free: 800.984.5337 Fax: 714.850.9314

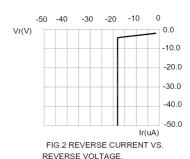


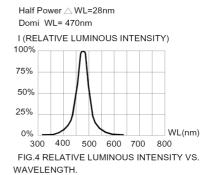
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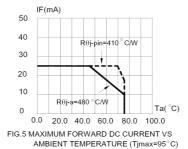
LC503QBL1-15H-A Graphs

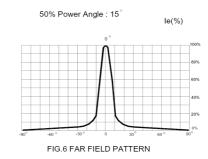












- 1. Cathode PAD Area (0.18 X 0.18inch²)
- 2. Height above nominal seating plane in inches(0.3inch)

NOTES:

- Specification is subject to change without notice.
- All Ranks will be included per delivery, rank ratio will be determined by Cotco/Marktech.
- Tolerance of measurement of luminous intensity is ±15%.
- Tolerance of measurement of dominant wavelength is ±1nm.
- Tolerance of measurement of Vf is ±0.05V.
- Packaging methods are available for selection, please refer to Packaging Standard.
- Please refer to LED Lamp Reliability Test Standard for reliability test conditions.

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