



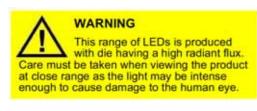
MEGA BRIGHT LED BTL-51BLC-XX-X

Product Features

- **Ultra Bright Blue Color**
- **High Light Output**
- 5mm Diameter Circular Package
- **Water Clear Lens**
- **Highly Reliable**
- IC Compatible
- Leads without Stand Off

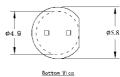
Applications

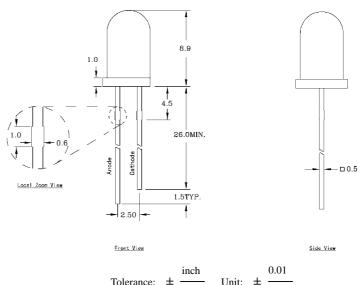
- Automotive
- **Front Panel Indicator**
- **Special Lighting**
- **General Purpose LEDs**



Note: Industry standard procedures regarding static must be observed when handling this product.

Package Dimension





		inch			0.01
Tolerance:	±		Unit:	±	
		mm			0.25

Optical and Electrical Characteristics at T_a=25℃

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	l _v	_	2500	_	mcd	I _F = 20mA (Note 1)
Viewing Angle	20 ½	_	15	_	deg	I _F = 20mA
Dominant Wavelength	$\lambda_{ m D}$	460	468	475	nm	I _F = 20mA (Note 2)
DC Forward Voltage	V _F	2.8	3.5	4.0	V	I _F = 20mA
DC Reverse Current	I _R	0		10	μΑ	V _R =5V

Notes:

- 1. Light intensity measures the light sensing response standard using chromatic meter. Refer to the CIE eye-response curve set by International Lighting committee. Tolerance of minimum and maximum intensity = ± 15%
- 2. Wavelength range can be selected from the bin selection table. Tolerance of minimum and $maximum = \pm 2nm$
- 3. These products are sensitive to static electricity and care must be fully taken when handling products



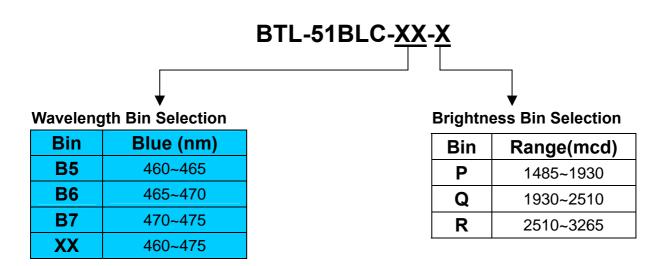


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Absolute Maximum Ratings at T_a=25℃

Symbol	Parameter	Max.	Unit	
P_{D}	Power Rating	100	mW	
V_{R}	Reverse Voltage (I _R =10μA)	5	V	
l _F	Continuous Forward Current	30	mA	
I _{FP}	Peak Forward Current (0.1 duty cycle @ 1kHz)	100	mA	
T_{opr}	Operating Temperature Range	-35 ~ + 80	C	
T_{stg}	Storage Temperature Range	-40 ~ + 100	C	
Lead Soldering Temperature [1.6mm (0.063inch) from body]		260℃ - max 5 seconds		

Wavelength and Brightness Selection



Packaging Options

Standard: 1000 pc bulk pack

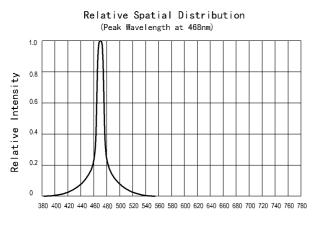
Optional: Tape and Reel (Please specify when order)



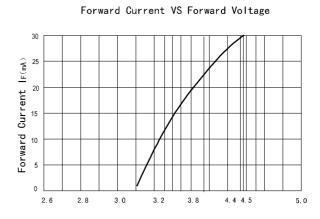


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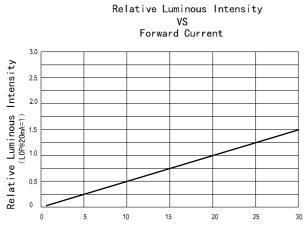
Typical Electro-Optical Characteristics Curves at T_a=25℃



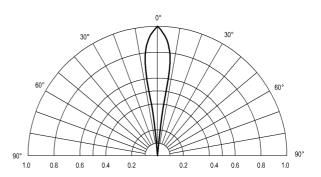
Wavelength $\lambda P(nm)$



Forward Voltage VF(V)



Forward Current IF(mA)



Spatial Distribution

Relative Brightness(LOP@MAX.=1)

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