



MEGA BRIGHT LED

BTL-52BLC-XX-X

Ø5.8

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

WARNING

This range of LEDs is produced

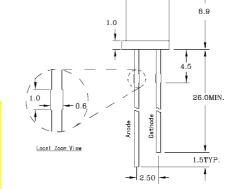
regarding static must be observed

with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense

when handling this product.

enough to cause damage to the human eye.

Note: Industry standard procedures



Package Dimension

ø4 9

Bottom View



Side View

Front View Tolerance: $\pm \frac{\text{inch}}{\text{mm}}$ Unit: $\pm \frac{0.01}{0.25}$

Optical and Electrical Characteristics at T_a=25℃

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	l _v	_	900	_	mcd	I _F = 20mA (Note 1)
Viewing Angle	2θ ½	_	30	_	deg	I _F = 20mA
Dominant Wavelength	$\lambda_{ m D}$	460	468	475	nm	I _F = 20mA (Note 2)
DC Forward Voltage	V _F	_	3.5	4.0	V	I _F = 20mA
DC Reverse Current	I _R	0	_	10	μA	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 = \pm 15%
- 2. Wavelength range can be selected from the bin selection table. Tolerance of minimum and maximum = ± 2nm
- 3. These products are sensitive to static electricity and care must be fully taken when handling products



Brilliance Technologies Co.,Ltd.

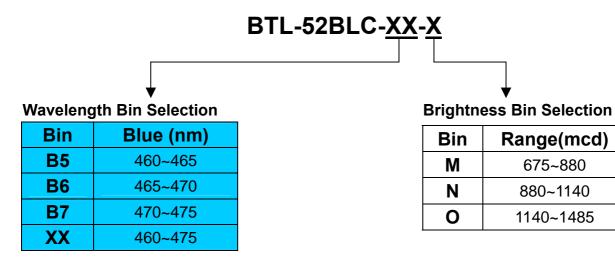
BTL-52BLC-XX-X

MEGA BRIGHT LED

Absolute Maximum Ratings at T_a=25℃

Symbol	Parameter	Max.	Unit
PD	Power Rating	100	mW
V _R	Reverse Voltage (I _R =10µA)	5	V
I _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	Ĉ
T _{stg}	Storage Temperature Range	-40 ~ + 100	Ĉ
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)

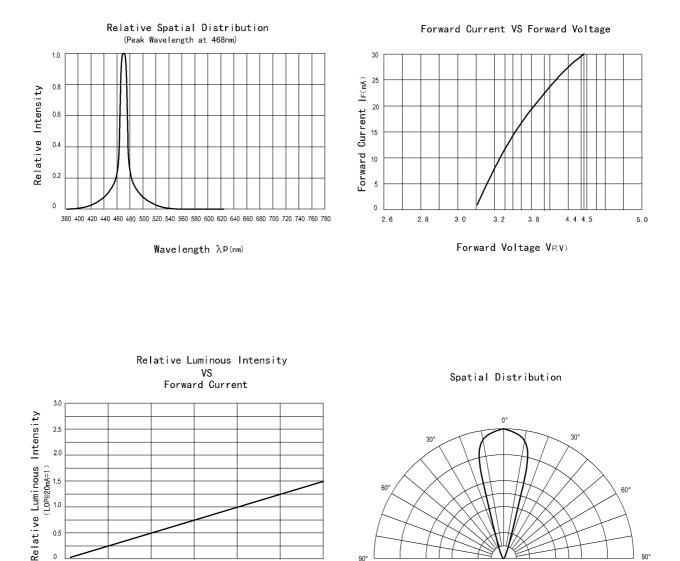




BTL-52BLC-XX-X

MEGA BRIGHT LED

Typical Electro-Optical Characteristics Curves at T_a=25℃



90°

30

1.0

0.8 0.6 0.4 0.2

BT-Rev. 1.0a Specifications are subject to change without notice.

15

Forward Current $I_{F(mA)}$

20

25

0.5 0

0

5

10

Copyright © 2003 Brilliance Technologies Co., Ltd. All rights reserved.

90°

1.0

0.2

Relative Brightness(LOP@MAX.=1)

0.4 0.6 0.8