



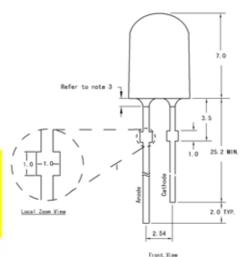
## MEGA BRIGHT LED BTL-54BLCS-XX-X

#### **Product Features**

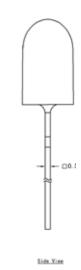
- Ultra Bright Blue Color
- High Light Output
- 5X4mm Diameter Elliptical Package
- Water Clear Lens
- Highly Reliable
- IC Compatible
- Leads with Stand Off

### **Applications**

- Full Color Display
- Automotive
- Front Panel Indicator
- Special Lighting
- General Purpose LEDs



**Package Dimension** 



Sottom View

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

#### WARNING

This range of LEDs is produced with die having a high radiant flux.
Care must be taken when viewing the product at close range as the light may be intense enough to cause damage to the human eye.

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

## Optical and Electrical Characteristics at T<sub>a</sub>=25℃

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	I <sub>v</sub>	_	500	_	mcd	I <sub>F</sub> = 20mA (Note 1)
Viewing Angle	2θ½ H-H	_	70	_	deg	I <sub>F</sub> = 20mA
	2θ½ V-V	_	30	_		
Dominant Wavelength	$\lambda_{ m D}$	460	468	475	nm	I <sub>F</sub> = 20mA (Note 2)
DC Forward Voltage	V <sub>F</sub>	1	3.5	4.0	V	I <sub>F</sub> = 20mA
DC Reverse Current	I <sub>R</sub>	0	_	10	μΑ	V <sub>R</sub> =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
- These products are sensitive to static electricity and care must be fully taken when handling products



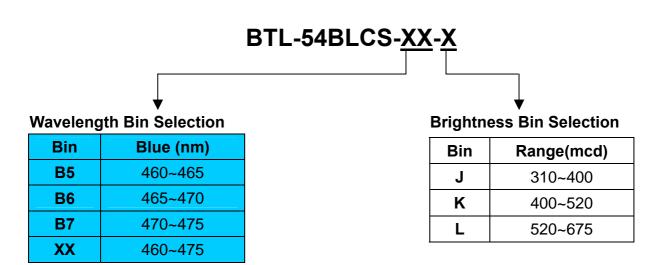


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## Absolute Maximum Ratings at T<sub>a</sub>=25℃

Symbol	Parameter	Max.	Unit	
$P_{D}$	Power Rating	100	mW	
$V_{R}$	Reverse Voltage (I <sub>R</sub> =10μA)	5	V	
I <sub>F</sub>	Continuous Forward Current	30	mA	
I <sub>FP</sub>	Peak Forward Current (0.1 duty cycle @ 1kHz)	100	mA	
$T_{opr}$	Operating Temperature Range	<b>-35</b> ~ <b>+</b> 80	C	
T <sub>stg</sub>	Storage Temperature Range	<b>-40</b> ~ + 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

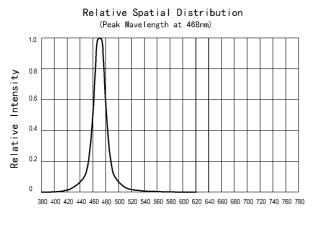
Optional: Tape and Reel (Please specify when order)



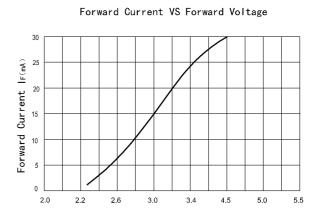


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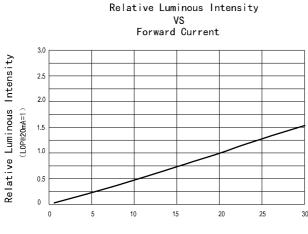
## Typical Electro-Optical Characteristics Curves at T<sub>a</sub>=25 ℃



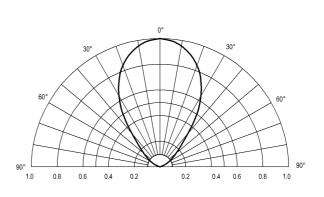
Wavelength  $\lambda P(nm)$ 



Forward Voltage VF(V)



Forward Current IF(mA)



Spatial Distribution

 $Relative \ Brightness (\verb|LOP@MAX.=====)$ 

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