

DBLECIRUZ Composants électroniques Electronic components

**MEGA BRIGHT LED** 



### **BTL-55BLCS-XX-X**

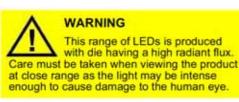
Botton View

#### **Product Features**

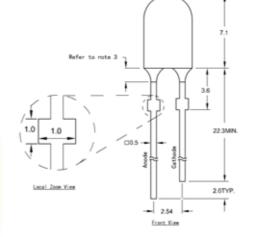
- Ultra Bright Blue Color
- High Light Output
- 5X4mm Diameter Elliptical Package
- Water Clear Lens
- Highly Reliable
- IC Compatible
- Leads with Stand Off

#### **Applications**

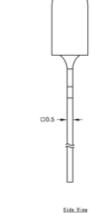
- Full Color Display
- Automotive
- Front Panel Indicator
- Special Lighting
- General Purpose LEDs



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



Package Dimension



Tolerance:	±	inch	Unit:	±	0.01
		mm	enn.		0.25

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

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	l <sub>v</sub>	_	400	_	mcd	I <sub>F</sub> = 20mA (Note 1)
Viewing Angle	<b>2θ</b> ½ H-H		110	—	dog	I <sub>F</sub> = 20mA
viewing Angle	<b>2θ</b> ½ V-V		45	—	deg	
Dominant Wavelength	$\lambda_{ m D}$	460	468	475	nm	I <sub>F</sub> = 20mA (Note 2)
DC Forward Voltage	V <sub>F</sub>	2.8	3.5	4.0	V	I <sub>F</sub> = 20mA
DC Reverse Current	I <sub>R</sub>	0	_	10	μA	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
- 3. These products are sensitive to static electricity and care must be fully taken when handling products

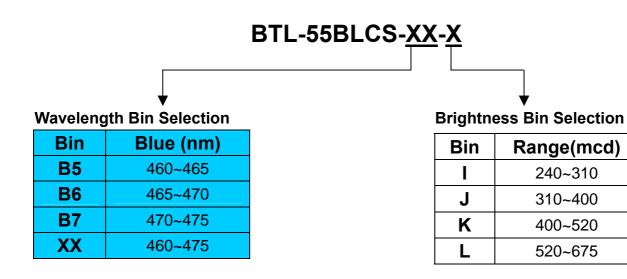


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#### Absolute Maximum Ratings at $T_a=25^{\circ}C$

Symbol	Parameter	Max.	Unit	
PD	Power Rating	100	mW	
V <sub>R</sub>	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	
<b>T</b> <sub>opr</sub>	Operating Temperature Range	-35 ~ + 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



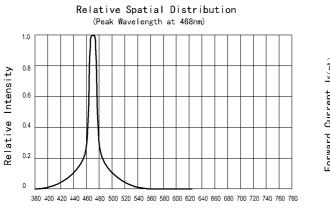
#### **Packaging Options**

Standard: 1000 pc bulk pack Optional: Tape and Reel (Please specify when order)

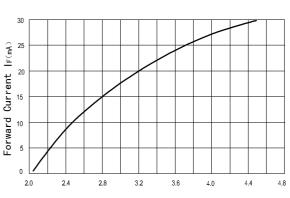


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### Typical Electro-Optical Characteristics Curves at $T_a=25^{\circ}C$

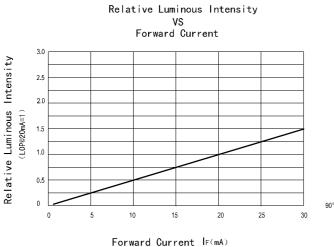


Wavelength  $\lambda P(nm)$ 

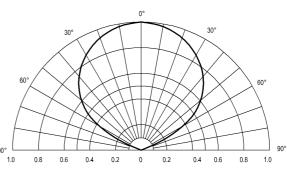


Forward Current VS Forward Voltage

#### Forward Voltage $V_{F(V)}$



Spatial Distribution



Relative Brightness(LOP@MAX.=1)

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