



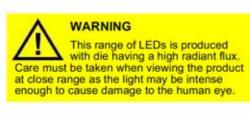
## **MEGA BRIGHT LED** BTL-51YEC-XX-X

### **Product Features**

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

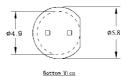
### **Applications**

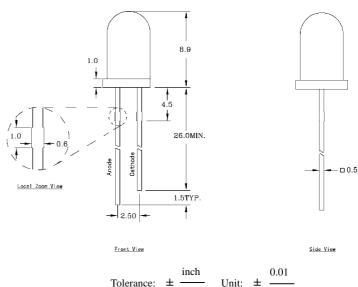
- Automotive
- **Front Panel Indicator**
- **Special Lighting**
- **General Purpose LEDs**



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

### **Package Dimension**





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

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	I <sub>v</sub>	_	3000	_	mcd	I <sub>F</sub> = 20mA (Note 1)
Viewing Angle	<b>2θ</b> ½	_	15	_	deg	I <sub>F</sub> = 20mA
Dominant Wavelength	$\lambda_{ m D}$	585	590	595	nm	I <sub>F</sub> = 20mA (Note 2)
DC Forward Voltage	V <sub>F</sub>	_	1.9	2.5	V	I <sub>F</sub> = 20mA
DC Reverse Current	I <sub>R</sub>	0	_	10	μΑ	V <sub>R</sub> =5V

#### Notes:

- 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  $maximum = \pm 2nm$
- These products are sensitive to static electricity and care must be fully taken when handling products



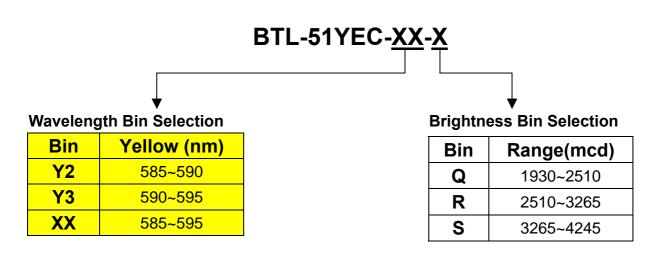


## MEGA BRIGHT LED BTL-51YEC-XX-X

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°C - max 5 seconds		

Wavelength and Brightness Selection



## **Packaging Options**

Standard: 1000 pc bulk pack

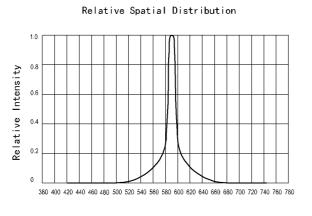
Optional: Tape and Reel (Please specify when order)



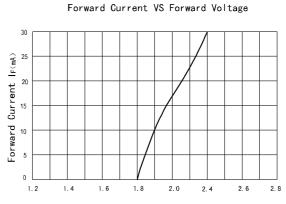


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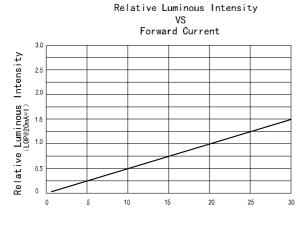
## Typical Electro-Optical Characteristics Curves at T<sub>a</sub>=25℃



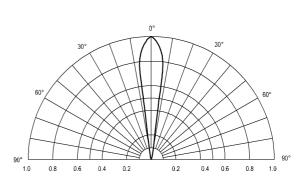
Wavelength  $\lambda P(nm)$ 



Forward Voltage VF(V)



Forward Current  $I_F(mA)$ 



Spatial Distribution

Relative Brightness(LOP@MAX. =1)

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