



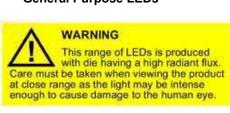
# MEGA BRIGHT LED BTL-46YGCS-XX-X

#### **Product Features**

- Ultra Bright Yellow Green Color
- High Light Output
- 4X3mm Diameter Elliptical Package
- Water Clear Lens
- Highly Reliable
- IC Compatible
- Leads with Stand Off

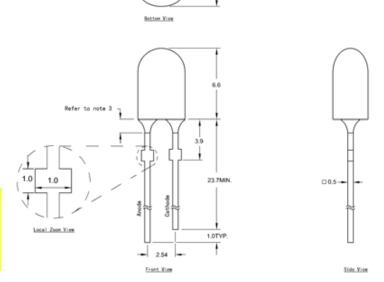
### **Applications**

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

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

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	l <sub>v</sub>	_	60	_	mcd	I <sub>F</sub> = 20mA (Note 1)
Viewing Angle	<b>2θ</b> ½ H-H	_	120	_	deg	I <sub>F</sub> = 20mA
	2θ½ V-V	_	55	_		
Dominant Wavelength	$\lambda_{ m D}$	565	572	575	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  $maximum = \pm 2nm$
- 3. These products are sensitive to static electricity and care must be fully taken when handling products



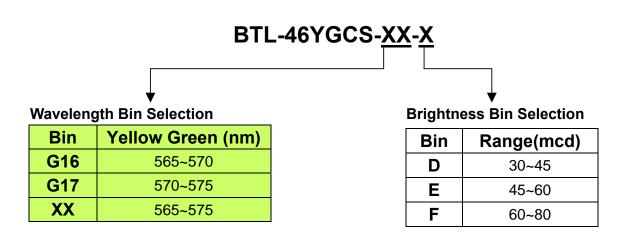


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### Absolute Maximum Ratings at T<sub>a</sub>=25℃

Symbol	Parameter	Max.	Unit	
P <sub>D</sub>	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 <sub>opr</sub>	Operating Temperature Range	<b>−35 ~ + 80</b>	င	
T <sub>stg</sub>	Storage Temperature Range	<b>-40</b> ~ + 100	င	
Lead Soldering Temperature [1.6mm (0.063inch) from body]		260℃ - max 5 seconds		

### Wavelength and Brightness Selection



## **Packaging Options**

Standard: 1000 pc bulk pack

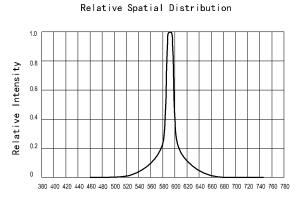
Optional: Tape and Reel (Please specify when order)



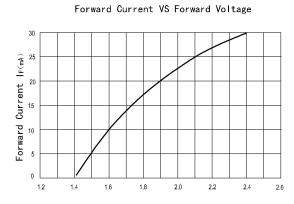


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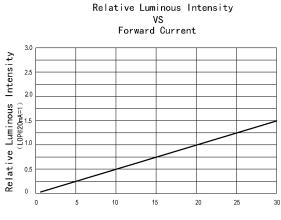
# Typical Electro-Optical Characteristics Curves at T<sub>a</sub>=25℃



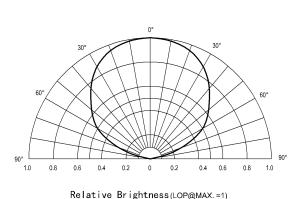
Wavelength  $\lambda P(nm)$ 



Forward Voltage  $V_F(v)$ 



Forward Current | IF(mA)



Spatial Distribution

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