DB LECTRO
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS

Brilliance Technologies Co.,Ltd.

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

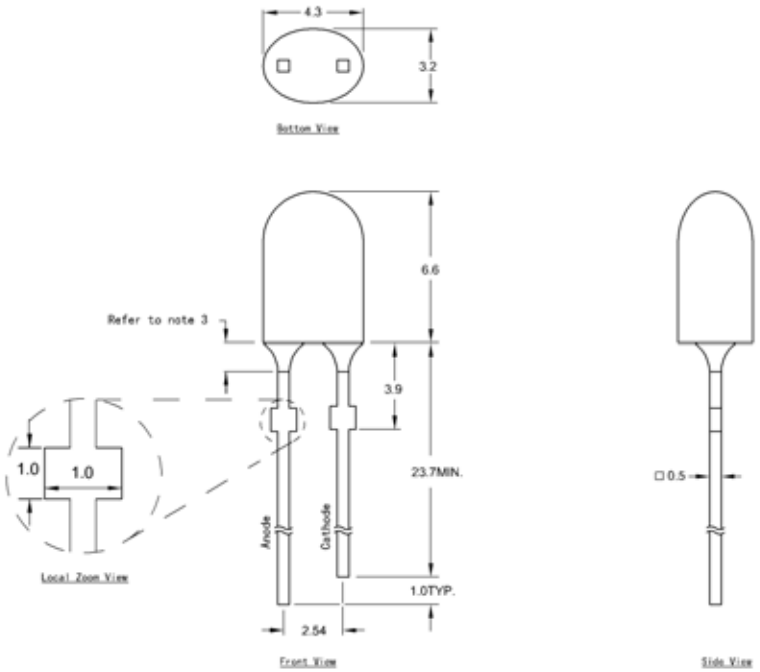
- Full Color Display
- Automotive
- Front Panel Indicator
- Special Lighting
- General Purpose LEDs

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.

Package Dimension



Tolerance: ± inch / mm Unit: ± 0.01 / 0.25

Optical and Electrical Characteristics at T_a=25℃

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	I_v	—	60	—	mcd	I_F = 20mA (Note 1)
Viewing Angle	2θ½ H-H	—	120	—	deg	I_F = 20mA
	2θ½ V-V	—	55	—		
Dominant Wavelength	λ_D	565	572	575	nm	I_F = 20mA (Note 2)
DC Forward Voltage	V_F	—	1.9	2.5	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 = ± 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

DB LECTRO Inc. 3600 boul. Matte suite i Brossard Qc J4Y-2Z2 tel:(450)-444-1424 fax:(450)-444-4714 www.dblectro.com

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Absolute Maximum Ratings at T_a=25℃

Symbol	Parameter	Max.	Unit
P_D	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	℃
T_{stg}	Storage Temperature Range	–40 ~ + 100	℃
Lead Soldering Temperature [1.6mm (0.063inch) from body]		260℃ - max 5 seconds	

Wavelength and Brightness Selection

BTL-46YGCS-XX-X

Wavelength Bin Selection

Bin	Yellow Green (nm)
G16	565~570
G17	570~575
XX	565~575

Brightness Bin Selection

Bin	Range(mcd)
D	30~45
E	45~60
F	60~80

Packaging Options

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

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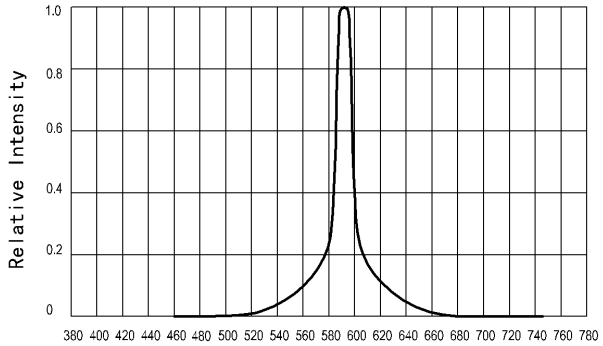
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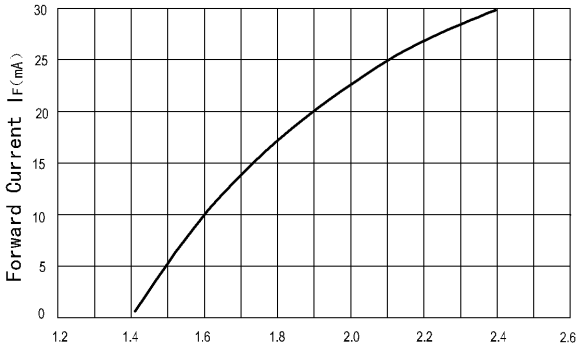
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Typical Electro-Optical Characteristics Curves at T_a=25℃

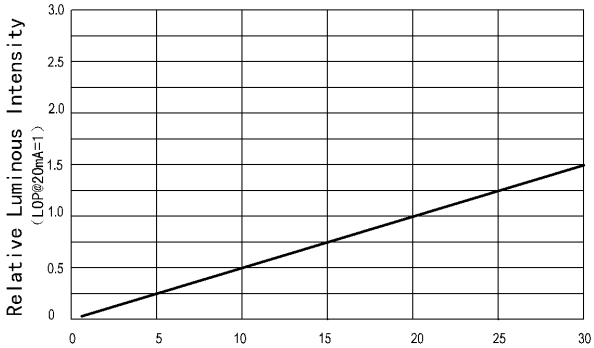
Relative Spatial Distribution



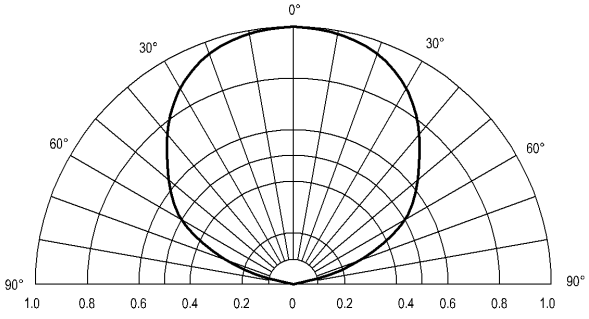
Forward Current VS Forward Voltage



Relative Luminous Intensity
VS
Forward Current



Spatial Distribution



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