



**MEGA BRIGHT LED** 

# BTL-52PGC-XX-X

Ø5.8

#### **Product Features**

- Ultra Bright Pure Green 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

WARNING

This range of LEDs is produced

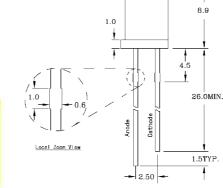
regarding static must be observed

with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense

when handling this product.

enough to cause damage to the human eye.

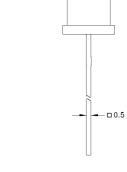
Note: Industry standard procedures



Package Dimension

ø4 9

Bottom View



Side View

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

#### Optical and Electrical Characteristics at Ta=25°C

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	l <sub>v</sub>	_	3000	_	mcd	I <sub>F</sub> = 20mA (Note 1)
Viewing Angle	<b>2θ</b> ½	_	30	_	deg	I <sub>F</sub> = 20mA
Dominant Wavelength	$\lambda_{ m D}$	520	528	535	nm	I <sub>F</sub> = 20mA (Note 2)
DC Forward Voltage	V <sub>F</sub>	_	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



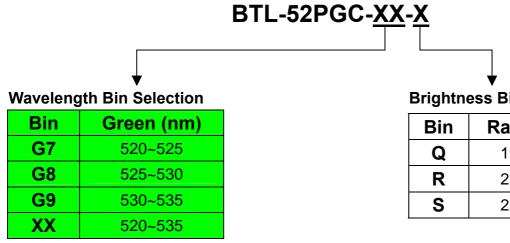
**BTL-52PGC-XX-X** 

**MEGA BRIGHT LED** 

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

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>PF</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



**Brightness Bin Selection** 

Bin	Range(mcd)
Q	1930~2510
R	2510~3265
S	2500~3500

#### **Packaging Options**

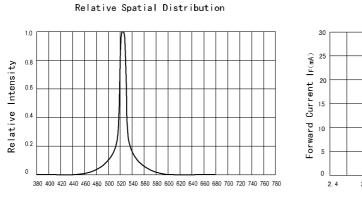
Standard: 1000 pc bulk pack Optional: Tape and Reel (Please specify when order)



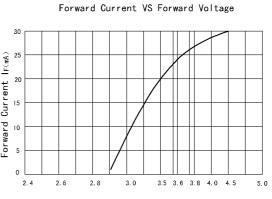


BTL-52PGC-XX-X

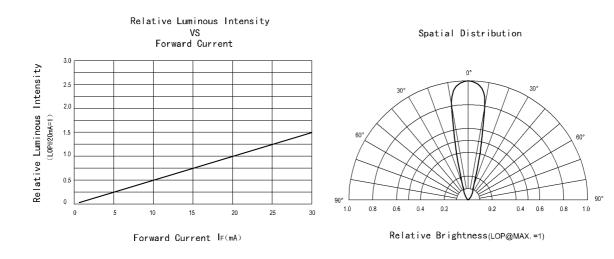
## Typical Electro-Optical Characteristics Curves at $T_a=25$ °C



Wavelength  $\lambda \text{P(nm)}$ 







BT-Rev. 1.0a Specifications are subject to change without notice. Copyright © 2003 Brilliance Technologies Co., Ltd. All rights reserved.