

Bottom View

DBLECIRU^z composants électroniques electronic components

MEGA BRIGHT LED

BTL-51PGC-XX-X

Ø5.8

Product Features

- Ultra Bright Pure Green Color
- High Light Output
- 5mm Diameter Circular Package

Technologies Co., Ltd.

- 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

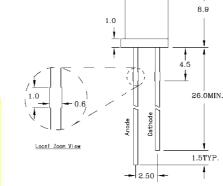
regarding static must be observed

when handling this product.

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

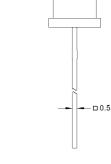
enough to cause damage to the human eye.

Note: Industry standard procedures



Package Dimension

04 9



Side View

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

Optical and Electrical Characteristics at T_a=25℃

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	l _v	_	6000	—	mcd	I _F = 20mA (Note 1)
Viewing Angle	2θ¹ ∕₂	_	15	_	deg	I _F = 20mA
Dominant Wavelength	$\lambda_{ m D}$	520	528	535	nm	I _F = 20mA (Note 2)
DC Forward Voltage	V _F	_	3.5	4.0	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 = \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





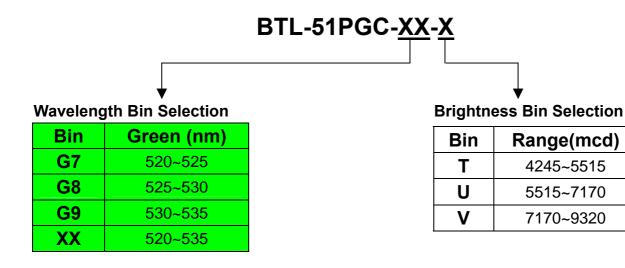
MEGA BRIGHT LED

BTL-51PGC-XX-X

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

Symbol	Parameter	Max.	Unit	
PD	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	C	
T _{stg}	Storage Temperature Range	-40 ~ + 100	Ĉ	
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)



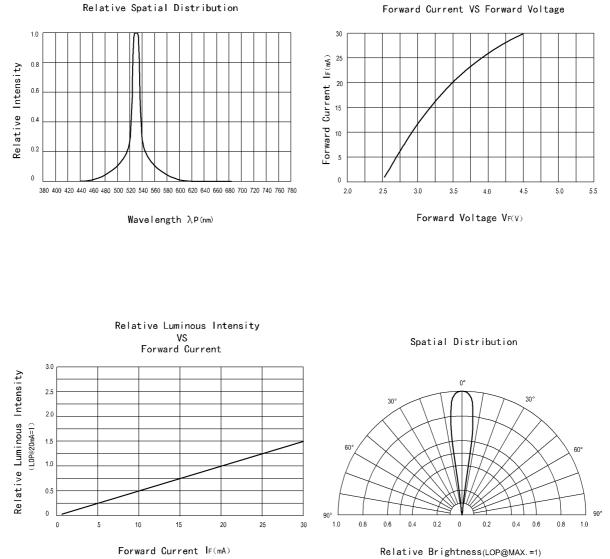
MEGA BRIGHT LED

BTL-51PGC-XX-X

Typical Electro-Optical Characteristics Curves at Ta=25°C

B

Technologies Co., Ltd.



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