



**MEGA BRIGHT LED** 

# **BTL-52NRC-XX-X**

\$5.8

#### Product Features

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

#### **Applications**

- Outdoor Sign Board
- Automotive
- Front Panel Indicator
- Special Lighting
- General Purpose LEDs

WARNING

This range of LEDs is produced

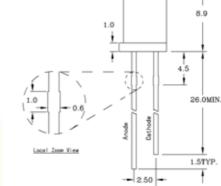
regarding static must be observed

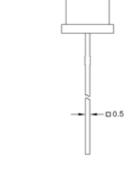
with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense

when handling this product.

enough to cause damage to the human eye.

Note: Industry standard procedures





Side View

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

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

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	l <sub>v</sub>	_	1600	_	mcd	I <sub>F</sub> = 20mA (Note 1)
Viewing Angle	<b>20</b> ½	_	30	_	deg	I <sub>F</sub> = 20mA
Dominant Wavelength	$\lambda_{ m D}$	620	628	635	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	μA	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 = ± 2nm
- 3. These products are sensitive to static electricity and care must be fully taken when handling products

64.9

Botton Vice

Front View



Brilliance Technologies Co.,Ltd.

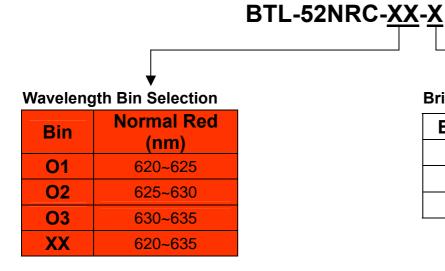
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### Absolute Maximum Ratings at $T_a \!\!=\!\! 25\,^\circ \!\! \mathbb{C}$

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>FP</sub>	Peak Forward Current (0.1 duty cycle @ 1kHz)	100	mA
T <sub>opr</sub>	Operating Temperature Range	-35 ~ + 80	Ĉ
T <sub>stg</sub>	Storage Temperature Range	<b>-40 ~ + 100</b>	Ĉ
Lead Soldering Temperature [1.6mm (0.063inch) from body]		260℃ - max 5 seconds	

#### Wavelength and Brightness Selection



**Brightness Bin Selection** 

Bin	Range(mcd)
0	1140~1485
Р	1485~1930
Q	1930~2510

#### **Packaging Options**

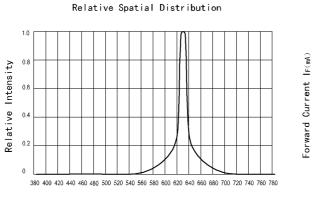
Standard: 1000 pc bulk pack Optional: Tape and Reel (Please specify when order)





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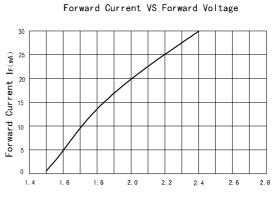
# Typical Electro-Optical Characteristics Curves at $T_a=25^{\circ}C$



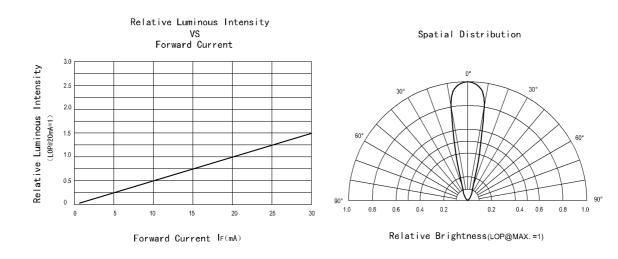
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B

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







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