

Botton View

DBLECIRU Composants électroniques Electronic components

MEGA BRIGHT LED



BTL-55NRDS-XX-X

Product Features

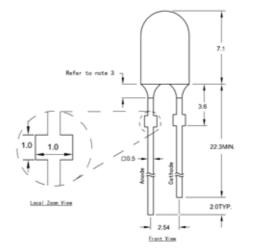
- Ultra Bright Normal Red Color
- High Light Output
- 5X4mm Diameter Elliptical Package
- Tinted Diffused Lens
- Highly Reliable
- IC Compatible
- Leads with Stand Off

Applications

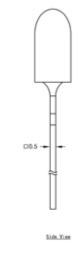
- Full Color Display
- Automotive
- Front Panel Indicator
- Special Lighting
- General Purpose LEDs

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	Unit:	+	0.01
Toteranee.	_	mm	enn.	_	0.25

Optical and Electrical Characteristics at T_a=25°C

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	I _v	_	450	_	mcd	I _F = 20mA (Note 1)
	2θ ½ H-H		110	—	deg	I _F = 20mA
Viewing Angle	2θ ¹ / ₂ V-V		45	—		
Dominant Wavelength	$\lambda_{ m D}$	620	630	635	nm	I _F = 20mA (Note 2)
DC Forward Voltage	V _F	1.7	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 = \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



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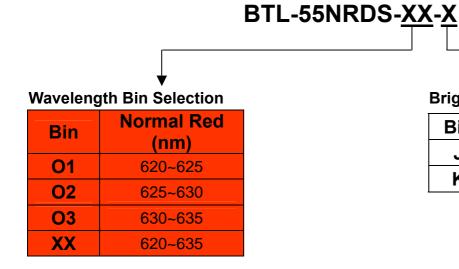
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BTL-55NRDS-XX-X

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		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



Brightness Bin Selection

Bin	Range(mcd)		
J	310~400		
K	400~520		

Packaging Options

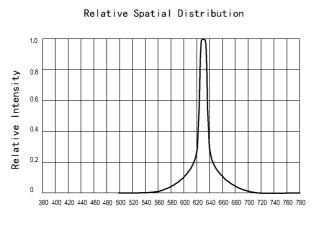
Standard: 1000 pc bulk pack Optional: Tape and Reel (Please specify when order)



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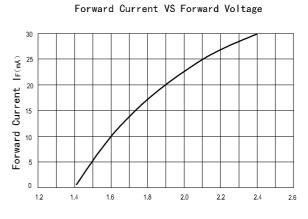
Typical Electro-Optical Characteristics Curves at $T_a=25^{\circ}C$



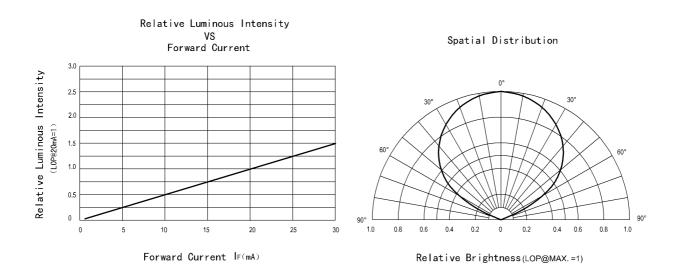
Technologies Co., Ltd.

B

Wavelength $\lambda P(nm)$



Forward Voltage $V_{F(V)}$



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