



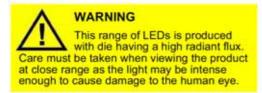
MEGA BRIGHT LED BTL-55NRDS-XX-X

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

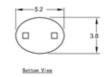
Applications

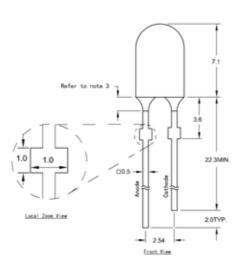
- Full Color Display
- Automotive
- Front Panel Indicator
- Special Lighting
- General Purpose LEDs

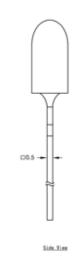


Note: Industry standard procedures regarding static must be observed when handling this product.

Package Dimension







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	Ι _ν	_	450	_	mcd	I _F = 20mA (Note 1)
Viewing Angle	2θ½ H-H	_	110	_	deg	I _F = 20mA
	2θ½ 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	μΑ	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



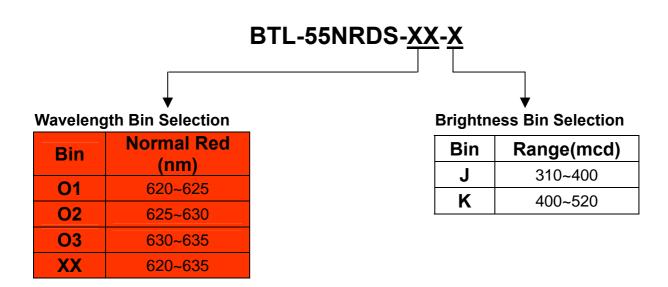


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Absolute Maximum Ratings at T_a=25 ℃

Symbol	Parameter	Max.	Unit	
\mathbf{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	°C	
T_{stg}	Storage Temperature Range	-40 ~ + 100	°C	
Lead Soldering Temperature [1.6mm (0.063inch) from body]		260 $^{\circ}$ - max 5 seconds		

Wavelength and Brightness Selection



Packaging Options

Standard: 1000 pc bulk pack

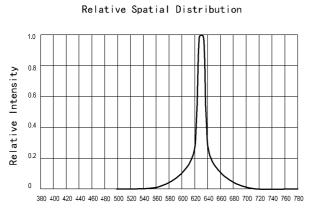
Optional: Tape and Reel (Please specify when order)



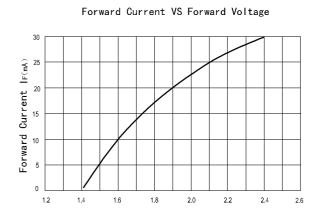


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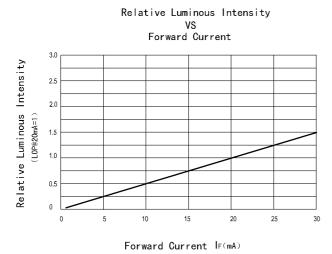
Typical Electro-Optical Characteristics Curves at T_a=25℃



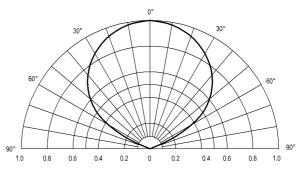
Wavelength $\lambda P(nm)$



Forward Voltage VF(V)



Spatial Distribution



Relative Brightness(LOP@MAX.=1)

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