



MEGA BRIGHT LED

BTL-52DRC-XX-X

Ø5.8

Product Features

- Ultra Bright Deep Red 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

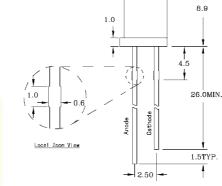
regarding static must be observed

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.

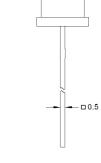
Note: Industry standard procedures



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 _v	_	1500	_	mcd	I _F = 20mA (Note 1)
Viewing Angle	2θ ½	_	30	_	deg	I _F = 20mA
Dominant Wavelength	$\lambda_{ m D}$	645	652	660	nm	I _F = 20mA (Note 2)
DC Forward Voltage	V _F	_	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



Brilliance

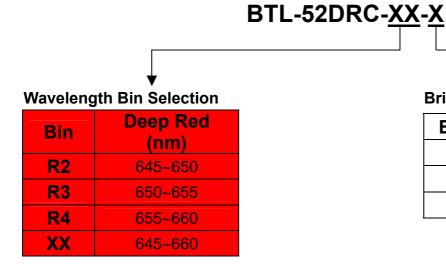
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Absolute Maximum Ratings at $T_a \!\!=\!\! 25\,^\circ \!\! \mathbb{C}$

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}	T _{opr} Operating Temperature Range		C	
T _{stg}	Storage Temperature Range	-40 ~ + 100	C	
Lead Solde	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)

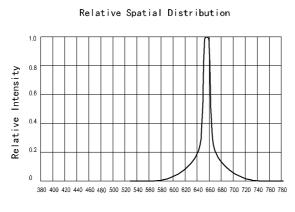




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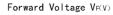
Typical Electro-Optical Characteristics Curves at $T_a=25$ °C

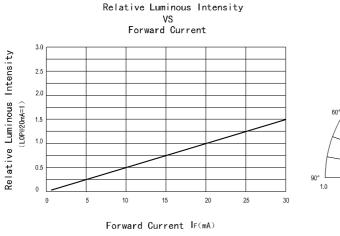




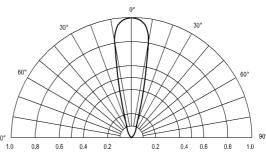
30 Forward Current IF(mA) 25 20 15 10 5 0 1.4 1.6 1.8 2. 0 2.2 2.4 2.6 2. 8

Forward Current VS Forward Voltage





Spatial Distribution



Relative Brightness(LOP@MAX.=1)

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