



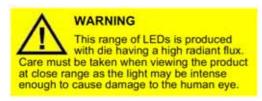
MEGA BRIGHT LED BTL-46DRCS-XX-X

Product Features

- Ultra Bright Deep Red Color
- High Light Output
- 4X3mm Diameter Elliptical Package
- Water Clear Lens
- Highly Reliable
- IC Compatible
- Leads with Stand Off

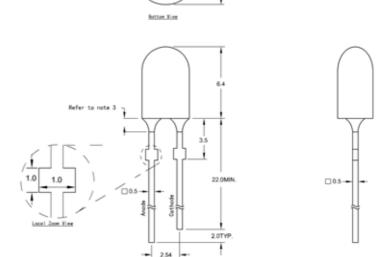
Applications

- 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: $\pm \frac{0.01}{0.25}$

Front View

Optical and Electrical Characteristics at T_a=25°C

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions
Luminous Intensity	I _v	_	180	_	mcd	I _F = 20mA (Note 1)
Viewing Angle	2θ½ H-H	_	120	_	deg	I _F = 20mA
	2θ½ V-V	_	55	_		
Dominant Wavelength	$\lambda_{ m D}$	645	652	660	nm	I _F = 20mA (Note 2)
DC Forward Voltage	V _F	1	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



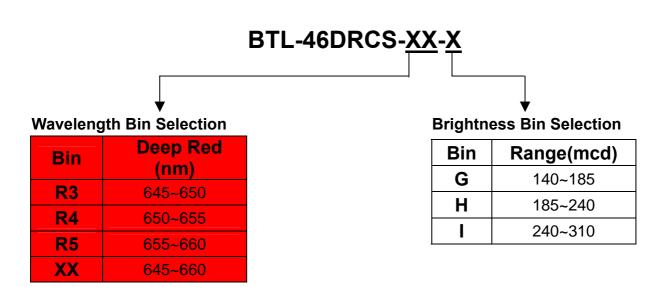


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Absolute Maximum Ratings at T_a=25℃

Symbol	Parameter	Max.	Unit	
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℃ - max 5 seconds		

Wavelength and Brightness Selection



Packaging Options

Standard: 1000 pc bulk pack

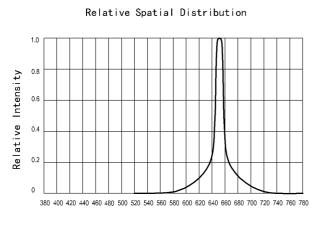
Optional: Tape and Reel (Please specify when order)



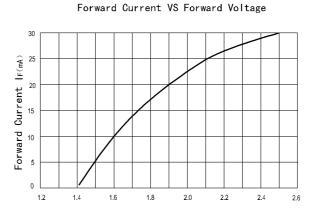


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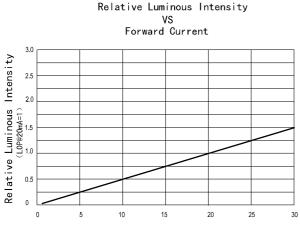
Typical Electro-Optical Characteristics Curves at T_a=25℃



Wavelength λP(nm)



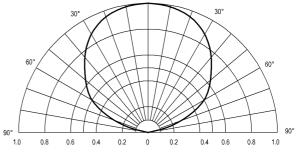
Forward Voltage $V_F(V)$



Forward Current IF(mA)



Spatial Distribution



Relative Brightness (LOP@MAX. =1)

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