

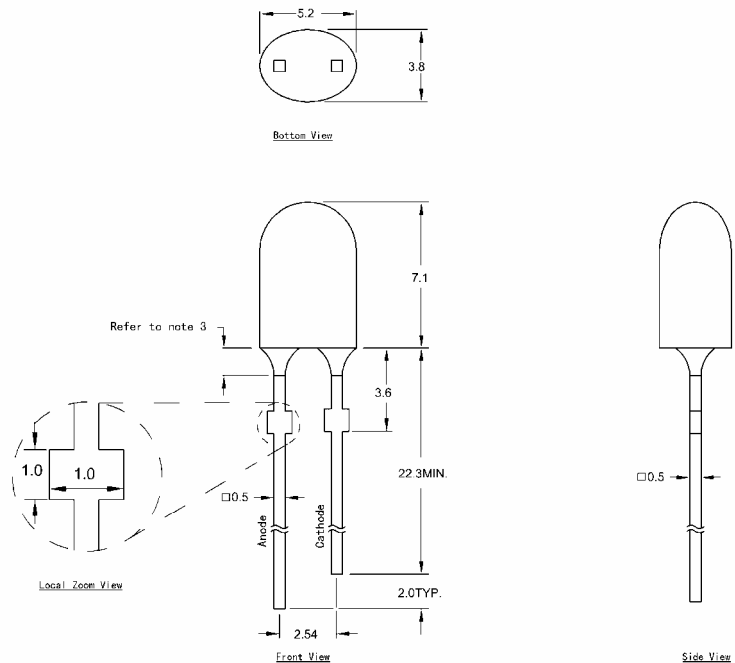
MEGA BRIGHT LED

BTL-55DRCS-XX-X

Product Features

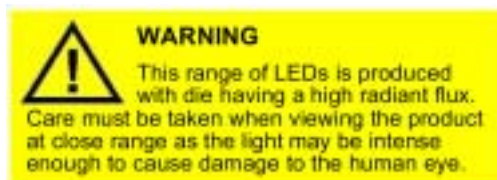
- Ultra Bright Deep Red Color
- High Light Output
- 5X4mm Diameter Elliptical Package
- Water Clear Lens
- Highly Reliable
- IC Compatible
- Leads with Stand Off

Package Dimension



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.

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	I_v	-	380	-	mcd	$I_F = 20\text{mA}$ (Note 1)
Viewing Angle	$20\frac{1}{2}$ H-H	-	110	-	deg	$I_F = 20\text{mA}$
	$20\frac{1}{2}$ V-V	-	45	-		
Dominant Wavelength	λ_D	645	652	660	nm	$I_F = 20\text{mA}$ (Note 2)
DC Forward Voltage	V_F	-	1.9	2.5	V	$I_F = 20\text{mA}$
DC Reverse Current	I_R	0	-	10	μA	$V_R=5\text{V}$

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 = $\pm 2\text{nm}$
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 ($I_R=10\mu A$)	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	$-35 \sim +80$	
T_{stg}	Storage Temperature Range	$-40 \sim +100$	
Lead Soldering Temperature [1.6mm (0.063inch) from body]		260 - max 5 seconds	

Wavelength and Brightness Selection

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Wavelength Bin Selection

Bin	Deep Red (nm)
R3	645~650
R4	650~655
R5	655~660
XX	645~660

Brightness Bin Selection

Bin	Range(mcd)
J	310~400
K	400~520
L	520~675

Packaging Options

Standard: 1000 pc bulk pack

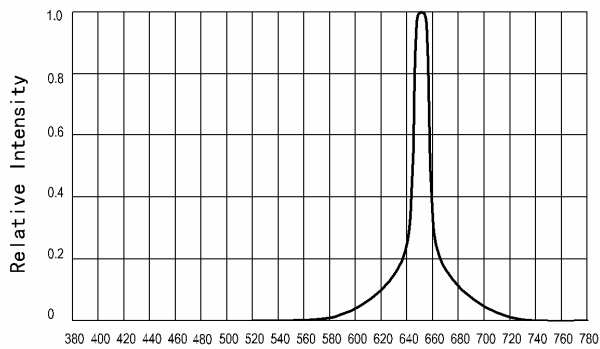
Optional: Tape and Reel (Please specify when order)

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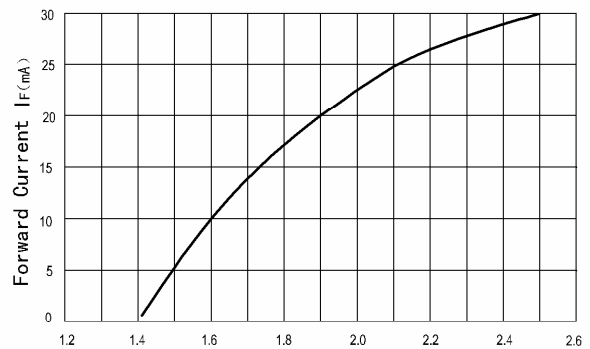
Typical Electro-Optical Characteristics Curves at $T_a=25$

Relative Spatial Distribution



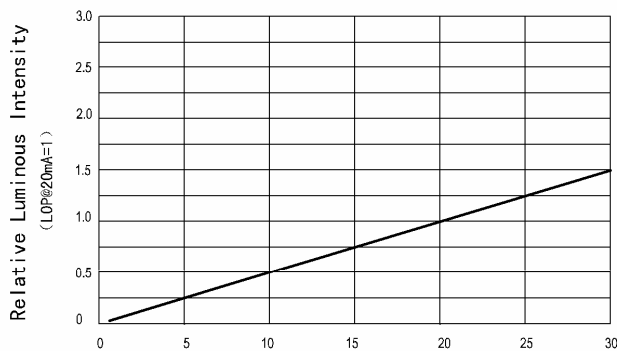
Wavelength λ_p (nm)

Forward Current VS Forward Voltage



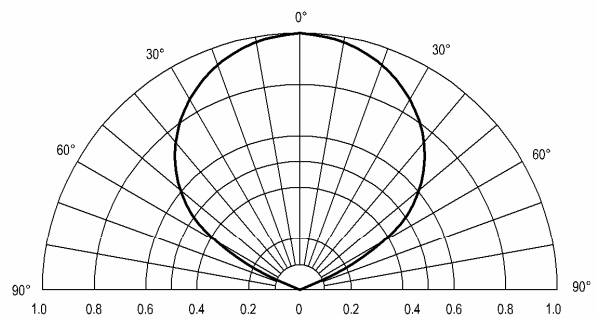
Forward Voltage V_F (V)

Relative Luminous Intensity
VS
Forward Current



Forward Current I_F (mA)

Spatial Distribution



Relative Brightness (LOP@MAX.=1)

BT-Rev. 1.0a

Specifications are subject to change without notice.

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