



BIGGER SIZE LED LAMPS (ROUND TYPES)

| Package | Part No. | Chip | | Lens Appearance | Absolute Maximum Ratings | | | | Electro-optical Data (At 20mA) | | | Viewing Angle 2q 1/2 (deg) | Drawing No. |
|---|--------------|------------------------|--------------------------|-----------------|--------------------------|---------|---------|-----------|--------------------------------|------|----------|----------------------------|-------------|
| | | Material/Emitted Color | Peak Wave Length λp (nm) | | Dl (mm) | Pd (mw) | If (mA) | Peak (mA) | Vf (V) | | Iv (mcd) | | |
| | | | | | | | | | Typ | Max | Typ. | | |
| Round φ 8.0 | BL-B5139 | GaP/GaP/Bright Red | 700 | Red Diffused | 90 | 40 | 15 | 50 | 2.2 | 2.6 | 20.0 | 45 | L-053 |
| | BL-B4539 | GaAsP/GaP/Hi-Eff Red | 635 | | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 50.0 | | |
| | BL-B6139 | GaAlAs/SH Red | 660 | | 20 | 60 | 30 | 150 | 1.7 | 2.6 | 100.0 | | |
| | BL-B2139 | GaP/GaP/Green | 568 | Green Diffused | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 50.0 | | |
| | BL-BX139 | GaAsP/GaP/Hi-Eff Green | 568 | | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 60.0 | | |
| | BL-B3139 | GaAsP/GaP/Yellow | 585 | Yellow Diffused | 35 | 80 | 30 | 150 | 2.1 | 2.6 | 40.0 | | |
| | BL-B4339 | GaAsP/GaP/Orange | 635 | Water Clear | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 350.0 | | |
| Round φ 8.0 | BL-B5139B | GaP/GaP/Bright Red | 700 | Red Diffused | 90 | 40 | 15 | 50 | 2.2 | 2.6 | 15.0 | 50 | L-054 |
| | BL-B4539B | GaAsP/GaP/Hi-Eff Red | 635 | | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 40.0 | | |
| | BL-B6139B | GaAlAs/SH Red | 660 | | 20 | 60 | 30 | 150 | 1.7 | 2.6 | 100.0 | | |
| | BL-B2139B | GaP/GaP/Green | 568 | Green Diffused | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 40.0 | | |
| | BL-BX139B | GaP/GaP/Hi-Eff Green | 568 | | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 50.0 | | |
| | BL-B3139B | GaAsP/GaP/Yellow | 585 | Yellow Diffused | 35 | 80 | 30 | 150 | 2.1 | 2.6 | 30.0 | | |
| | BL-B4339B | GaAsP/GaP/Orange | 635 | Water Clear | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 300.0 | | |
| 8.0x8.0x 12.0mm 1.0" Lead Rectangular Round Head | BL-R513G | GaP/GaP/Bright Red | 700 | Red Diffused | 90 | 50 | 15 | 50 | 2.2 | 2.6 | 30.0 | 35 | L-055 |
| | BL-R453G | GaAsP/GaP/Hi-Eff Red | 635 | | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 100.0 | | |
| | BL-R613G | GaAlAs/SH Red | 660 | | 20 | 60 | 30 | 150 | 1.7 | 2.6 | 150.0 | | |
| | BL-BX113G | GaP/GaP/Hi-Eff Green | 568 | Green Diffused | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 180.0 | | |
| | BL-R213G | GaP/GaP/Green | 568 | | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 150.0 | | |
| | BL-R313G | GaAsP/GaP/Yellow | 585 | Yellow Diffused | 35 | 80 | 30 | 150 | 2.1 | 2.6 | 90.0 | | |
| | BL-R413G | GaAsP/GaP/Orange | 635 | Orange Diffused | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 100.0 | | |
| Round φ 10.0 | BL-B5130A | GaP/GaP/Bright Red | 700 | Red Diffused | 90 | 50 | 15 | 50 | 2.2 | 2.6 | 20.0 | 50 | L-056 |
| | BL-B4530A | GaAsP/GaP/Hi-Eff Red | 635 | | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 100.0 | | |
| | BL-B6130A | GaAlAs/SH Red | 660 | | 20 | 60 | 30 | 150 | 1.7 | 2.6 | 140.0 | | |
| | BL-BX1130A | GaP/GaP/Hi-Eff Green | 568 | Green Diffused | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 130.0 | | |
| | BL-B2130A | GaP/GaP/Green | 568 | | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 100.0 | | |
| | BL-B3130A | GaAsP/GaP/Yellow | 585 | Yellow Diffused | 35 | 80 | 30 | 150 | 2.1 | 2.6 | 90.0 | | |
| | BL-B4130A | GaAsP/GaP/Orange | 635 | Orange Diffused | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 100.0 | | |
| Round φ 12.0 | BL-B513C | GaP/GaP/Bright Red | 700 | Red Diffused | 90 | 50 | 15 | 50 | 2.2 | 2.6 | 20.0 | 50 | L-057 |
| | BL-B453C | GaAsP/GaP/Hi-Eff Red | 635 | | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 60.0 | | |
| | BL-B613C | GaAlAs/SH Red | 660 | | 20 | 60 | 30 | 150 | 1.7 | 2.6 | 100.0 | | |
| | BL-BX113C | GaP/GaP/Hi-Eff Green | 568 | Green Diffused | 20 | 80 | 30 | 150 | 1.7 | 2.6 | 120.0 | | |
| | BL-B213C | GaP/GaP/Green | 568 | | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 60.0 | | |
| | BL-B313C | GaAsP/GaP/Yellow | 585 | Yellow Diffused | 35 | 80 | 30 | 150 | 2.1 | 2.6 | 50.0 | | |
| | BL-B413C | GaAsP/GaP/Orange | 635 | Orange Diffused | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 60.0 | | |
| Round φ 10.0 | BL-B5330M | GaP/GaP/Bright Red | 700 | Water Clear | 90 | 50 | 15 | 50 | 2.2 | 2.6 | 120.0 | 12 | L-058 |
| | BL-B6330M | GaAlAs/SH Red | 660 | | 20 | 60 | 30 | 150 | 1.7 | 2.6 | 450.0 | | |
| | BL-BD330M | GaAlAs/DH Red | 660 | | 20 | 60 | 30 | 150 | 1.7 | 2.6 | 600.0 | | |
| | BL-B2330M | GaP/GaP/Green | 568 | | 30 | 80 | 30 | 150 | 2.2 | 2.6 | 350.0 | | |
| | BL-BX1330M | GaP/GaP/Hi-Eff Green | 568 | | 20 | 80 | 30 | 150 | 1.7 | 2.6 | 120.0 | | |
| | BL-B3330M | GaAsP/GaP/Yellow | 585 | | 35 | 80 | 30 | 150 | 2.1 | 2.6 | 250.0 | | |
| | BL-B4330M | GaAsP/GaP/Orange | 635 | | 45 | 80 | 30 | 150 | 2.0 | 2.6 | 300.0 | | |
| Round φ 20.0 | BL-B6H120U | GaP/GaP/Bright Red | 700 | Red Diffused | 90 | 300 | 15 | 50 | 2.2 | 2.6 | 50.0 | 180 | L-059 |
| | BL-B6E520U | GaAsP/GaP/Orange | 635 | | 45 | 480 | 30 | 150 | 2.0 | 2.6 | 180.0 | | |
| | BL-B6D120U | GaAlAs/DH Red | 660 | | 20 | 360 | 30 | 150 | 1.7 | 2.6 | 200.0 | | |
| | BL-B6G120U | GaP/GaP/Green | 568 | Green Diffused | 30 | 480 | 30 | 150 | 2.2 | 2.6 | 180.0 | | |
| | BL-B6X1120U | GaP/GaP/Hi-Eff Green | 568 | | 30 | 480 | 30 | 150 | 2.2 | 2.6 | 250.0 | | |
| | BL-B6Y120U | GaAsP/GaP/Yellow | 585 | Yellow Diffused | 35 | 480 | 30 | 150 | 2.1 | 2.6 | 170.0 | | |
| Round φ 20.0 | BL-B6H120-1S | GaP/GaP/Bright Red | 700 | Red Diffused | 90 | 300 | 15 | 50 | 13.2 | 15.6 | 50.0 | 180 | L-059 |
| | BL-B6E520-1S | GaAsP/GaP/Orange | 635 | | 45 | 480 | 30 | 150 | 13.2 | 15.6 | 180.0 | | |
| | BL-B6D120-2P | GaAlAs/DH Red | 660 | | 20 | 480 | 30 | 150 | 5.1 | 7.8 | 200.0 | | |
| | BL-B6G120-2P | GaP/GaP/Green | 568 | Green Diffused | 30 | 480 | 30 | 150 | 6.6 | 7.8 | 180.0 | | |
| | BL-B6Y120-3P | GaAsP/GaP/Yellow | 585 | Yellow Diffused | 35 | 480 | 30 | 150 | 4.2 | 5.2 | 170.0 | | |

Remark: 1. Hi-Eff Red/High-Efficiency Red.

2. Trans/Transparent.

3. 2θ 1/2 The off-axis angle at which the luminous intensity is half the axial luminous intensity.



STANDARD LED LAMPS (ROUND TYPES)

| L-053 BL-Bxx39 Series | L-054 BL-Bxx39B Series |
|--|------------------------|
| | |
| L-055 BL-Rxx3G Series | L-056 BL-Bxx30A Series |
| | |
| L-057 BL-Bxx3C Series | L-058 BL-Bx330M Series |
| | |
| L-059 BL-Bxxx20x & BL-Bxxx20-xx Series | |
| | |

Notes: 1. All Dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (.010")