



# Bigger Size LED Lamps BL-B Series

Round Types

Package	Part No.	Chip		Lens Appearance	Absolute Maximum Ratings				Electro-optical Data (At 20mA)			Viewing Angle $2\theta_{1/2}$ (deg)	Drawing No.
		Material/ Emitted Color	Peak Wave Length $\lambda_p$ (nm)		$\Delta\lambda$ (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf (V)		Iv (mcd)		
									Typ	Max	Typ		
Round $\phi$ 8.0	BL-B5139	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	20.0	45	L-137
	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 $\phi$ 8.0	BL-B5139B	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	15.0	50	L-138
	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		
8.0x8.0x12.0mm 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-139
	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-RX113G	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 $\phi$ 10.0	BL-B5130A	GaP/GaP/ Bright Red	700	Red Diffused	90	50	15	50	2.2	2.6	20.0	50	L-140
	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 $\phi$ 12.0	BL-B513C	GaP/GaP/ Bright Red	700	Red Diffused	90	50	15	50	2.2	2.6	20.0	50	L-141
	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 $\phi$ 10.0	BL-B5330M	GaP/GaP/ Bright Red	700	Water Clear	90	50	15	50	2.2	2.6	120.0	12	L-142
	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 $\phi$ 20.0	BL-B6H120U	GaP/GaP/ Bright Red	700	Red Diffused	90	300	15	50	2.2	2.6	50.0	180	L-143
	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 $\phi$ 20.0	BL-B6H120-1S	GaP/GaP/ Bright Red	700	Red Diffused	90	300	15	50	13.2	15.6		
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.  
 3.2  $\theta_{1/2}$  The off-axis angle at which the luminous intensity is half the axial luminous intensity.



<p><b>L-137 BL-Bxx39 Series</b></p>	<p><b>L-138 BL-Bxx39B Series</b></p>
<p><b>L-139 BL-Rxx3G Series</b></p>	<p><b>L-140 BL-Bxx30A Series</b></p>
<p><b>L-141 BL-Bxx3C Series</b></p>	<p><b>L-142 BL-Bx330M Series</b></p>
<p><b>L-143 BL-Bxxx20x &amp; BL-Bxxx20-xx Series</b></p>	

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