



# LOW-CURRENT LED LAMPS (ROUND TYPES)

Package	Part No.	Chip		Lens Appearance	Absolute Maximum Ratings			Electro-optical Data (At 2mA)			Viewing Angle 2q 1/2 (deg)	Drawing No.
		Material/Emitted Color	Peak Wave Length λp (nm)		Dl (nm)	Pd (mw)	If (mA)	Vf (V)		Iv (mcd)		
								Typ	Max	Typ.		
T-1 Standard 1.0" Lead 3 φ	BL-B5141-L	GaP/GaP/Bright Red	700	Red Diffused	90	14	7	1.9	2.2	1.0	35	L-060
	BL-B4541-L	GaAsP/GaP/Hi-Eff Red	635		45	14	7	1.8	2.2	4.0		
	BL-B2141-L	GaP/GaP/Green	568	Green Diffused	30	14	7	1.9	2.2	4.0		
	BL-BX1141-L	GaP/GaP/Hi-Eff Green	568		30	14	7	1.8	2.2	7.0		
	BL-B3141-L	GaAsP/GaP/Yellow	585	Yellow Diffused	35	14	7	1.9	2.2	3.0		
	BL-B4141-L	GaAsP/GaP/Orange	635	Orange Diffused	45	14	7	1.8	2.2	4.0		
	BL-B4341-L	GaAsP/GaP/Orange	635	Water Clear	45	14	7	1.8	2.2	12.0		
T-1 1.0" Lead 3 φ	BL-B45V1G-L	GaAsP/GaP/Hi-Eff Red	635	Red Diffused	45	14	7	1.8	2.2	4.0	35	L-061
	BL-B21V1G-L	GaP/GaP/Green	568	Green Diffused	30	14	7	1.9	2.2	4.0		
	BL-B31VG-L	GaAsP/GaP/Yellow	585	Yellow Diffused	35	14	7	1.9	2.2	3.0		
	BL-B24V1G-L	GaP/GaP/Green	568	Green Trans	30	14	7	1.9	2.2	8.0	30	
	BL-B34VG-L	GaAsP/GaP/Yellow	585	Yellow Trans	35	14	7	1.9	2.2	6.5		
	BL-B23V1G-L	GaP/GaP/Green	568	Water Clear	30	14	7	1.9	2.2	8.0		
	BL-B33V1G-L	GaAsP/GaP/Yellow	585		35	14	7	1.9	2.2	6.5		
1.0" Lead High Flangeless 3 φ	BL-B45V1H-L	GaAsP/GaP/Hi-Eff Red	635	Red Diffused	45	14	7	1.8	2.2	4.0	30	L-062
	BL-B21V1H-L	GaP/GaP/Green	568	Green Diffused	30	14	7	1.9	2.2	5.0		
	BL-B31V1H-L	GaAsP/GaP/Yellow	585	Yellow Diffused	35	14	7	1.9	2.2	3.0		
	BL-B24V1H-L	GaP/GaP/Green	568	Green Trans	30	14	7	1.9	2.2	10.0	25	
	BL-B34V1H-L	GaAsP/GaP/Yellow	585	Yellow Trans	35	14	7	1.9	2.2	6.0		
	BL-B23V1H-L	GaP/GaP/Green	568	Water Clear	30	14	7	1.9	2.2	10.0		
	BL-B33V1H-L	GaAsP/GaP/Yellow	585		35	14	7	1.9	2.2	6.0		
T-13/4 Standard 1.0" Lead 5 φ	BL-B5134-L	GaP/GaP/Bright Red	700	Red Diffused	90	14	7	1.9	2.2	1.2	35	L-063
	BL-B4534-L	GaAsP/GaP/Hi-Eff Red	635		45	14	7	1.8	2.2	8.0		
	BL-B2134-L	GaP/GaP/Green	568	Green Diffused	30	14	7	1.9	2.2	8.0		
	BL-BX1134-L	GaP/GaP/Hi-Eff Green	568		30	14	7	1.8	2.2	12.5		
	BL-B3134-L	GaAsP/GaP/Yellow	585	Yellow Diffused	35	14	7	1.9	2.2	7.0		
	BL-B4134-L	GaAsP/GaP/Orange	635	Orange Diffused	45	14	7	1.8	2.2	8.0		
	BL-B4334-L	GaAsP/GaP/Orange	635	Water Clear	45	14	7	1.8	2.2	20.0		
T-13/4 Standard 1.0" Lead 5 φ	BL-B5134G-1-L	GaP/GaP/Bright Red	700	Red Diffused	90	14	7	1.9	2.2	0.8	45	L-064
	BL-B4534G-1-L	GaAsP/GaP/Hi-Eff Red	635		45	14	7	1.8	2.2	6.5		
	BL-B2134G-1-L	GaP/GaP/Green	568	Green Diffused	30	14	7	1.9	2.2	6.5		
	BL-BX1134G-1-L	GaP/GaP/Hi-Eff Green	568		30	14	7	1.9	2.2	10.5		
	BL-B3134G-1-L	GaAsP/GaP/Yellow	585	Yellow Diffused	35	14	7	1.9	2.2	5.5		
	BL-B4334G-1-L	GaAsP/GaP/Orange	635	Water Clear	45	14	7	1.8	2.2	16.0		
T-13/4 Flangeless 1.0" Lead 5 φ	BL-B5134N-1-L	GaP/GaP/Bright Red	700	Red Diffused	90	14	7	1.9	2.2	0.9	45	L-065
	BL-B4534N-1-L	GaAsP/GaP/Hi-Eff Red	635		45	14	7	1.8	2.2	7.0		
	BL-B2134N-1-L	GaP/GaP/Green	568	Green Diffused	30	14	7	1.9	2.2	7.0		
	BL-BX1134N-1-L	GaP/GaP/Hi-Eff Green	568		30	14	7	1.8	2.2	11.2		
	BL-B3134N-1-L	GaAsP/GaP/Yellow	585	Yellow Diffused	35	14	7	1.9	2.2	6.5		

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-060 BL-Bxx41-L Series	L-061 BL-BxxV1G-L Series
<p>Technical drawing of L-060 BL-Bxx41-L Series LED lamp. Dimensions include: top diameter <math>\phi 3.00(.118)</math>, total height 5.30(.209), cathode height 25.4(2.00) MIN., base diameter 2.54(.100) NOM., and cathode diameter 3.80(.150). Other dimensions: 0.81(.032), 1.5(.059) MAX., 0.5(.02) SQ. TYP., 1.00(.039) MIN., and a note 'FLAT DENOTES CATHODE'.</p>	<p>Technical drawing of L-061 BL-BxxV1G-L Series LED lamp. Dimensions include: top diameter <math>\phi 3.05(.120)</math>, total height 5.40(.213), cathode height 25.4(1.00) MIN., base diameter 2.54(.100) NOM., and cathode diameter 3.95(.158). Other dimensions: 1.8(.071), 1.5(.059) MAX., 0.5(.02) SQ. TYP., and a note 'FLAT DENOTES CATHODE'.</p>
L-062 BL-BxxV1H-L Series	L-063 BL-Bxx34-L Series
<p>Technical drawing of L-062 BL-BxxV1H-L Series LED lamp. Dimensions include: top diameter <math>\phi 3.35(.132)</math>, total height 6.00(.236), cathode height 25.4(1.0) MIN., base diameter 2.54(.10) NOM., and cathode diameter 3.35(.132). Other dimensions: 1.5(.059) MAX., 0.5(.02) SQ. TYP., 1.0(.04) MIN., and a note 'FLAT DENOTES CATHODE'.</p>	<p>Technical drawing of L-063 BL-Bxx34-L Series LED lamp. Dimensions include: top diameter <math>\phi 5.0(.197)</math>, total height 8.62(.339), cathode height 25.4(2.00) MIN., base diameter 2.54(.100) NOM., and cathode diameter 5.7(.22). Other dimensions: 1.0(.04), 1.5(.059) MAX., 0.5(.02) SQ. TYP., 1.00(.04) MIN., and a note 'FLAT DENOTES CATHODE'.</p>
L-064 BL-Bxx34G-1-L Series	L-065 BL-Bxx34N-1-L Series
<p>Technical drawing of L-064 BL-Bxx34G-1-L Series LED lamp. Dimensions include: top diameter <math>\phi 5.0(.197)</math>, total height 8.62(.339), cathode height 25.4(2.00) MIN., base diameter 2.54(.100) NOM., and cathode diameter 5.7(.22). Other dimensions: 1.0(.04), 1.5(.059) MAX., 0.5(.02) SQ. TYP., 1.00(.04) MIN., and a note 'FLAT DENOTES CATHODE'.</p>	<p>Technical drawing of L-065 BL-Bxx34N-1-L Series LED lamp. Dimensions include: top diameter <math>\phi 5.00(.197)</math>, total height 8.80(.346), cathode height 25.0(.946) MIN., base diameter 2.54(.100) NOM., and cathode diameter 5.00(.197). Other dimensions: 1.5(.059) MAX., 0.5(.02) SQ. TYP., 1.00(.04) MIN., and a note 'FLAT DENOTES CATHODE'.</p>

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