

# STANDARD LED LAMPS

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.		
1.0" Lead 4.8 $\phi$	BL-B5134B	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	4.0	30	D-009
	BL-B4534B	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	25.0		
	BL-B2134B	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	25.0		
	BL-B3134B	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	20		
	BL-B2434B	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.2	2.6	100	20	
	BL-B4634B	GaAsP/GaP/Orange	635	Red Trans	45	80	30	150	2.0	2.6	100		
Standard 1.0" Lead 4.0 $\phi$	BL-B5132	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	12.0	55	D-010
	BL-B4532	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	70.0		
	BL-B2132	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	70.0		
	BL-B3132	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	60.0		
	BL-B4132	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	70.0		
	BL-B4632	GaAsP/GaP/Hi-Eff Red	635	Red Trans	45	80	30	150	2.0	2.6	120.0	35	
T-13/4 Standard 1.0" Lead 5.0 $\phi$	BL-B2134	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	80.0	35	D-011
	BL-B3134	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	70.0		
	BL-B5134	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	12.0		
	BL-B4534	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	80.0		
	BL-B2434	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.0	2.6	200	12	
	BL-B4634	GaAsP/GaP/Yellow	635	Red Trans	45	80	30	150	2.0	2.6	200		
Medium Profile Flangeless 1.0" Lead 4.8 $\phi$	BL-B5133N	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	25.0	40	D-012
	BL-B4533N	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	80.0		
	BL-B2133N	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	80.0		
	BL-B3133N	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	70.0		
	BL-B2433N	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.2	2.6	130.0	35	
	BL-B3433N	GaAsP/GaP/Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	100.0		
T1 3/4 Flangeless 1.0" Lead 5.0 $\phi$	BL-B5134N	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	13.0	40	D-013
	BL-B4534N	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	80.0		
	BL-B2134N	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	80.0		
	BL-B3134N	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	70.0		
	BL-B2434N	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.0	2.6	140.0	20	
	BL-B4334N	GaAsP/GaP/Orange	635	Water Clear	45	80	30	150	2.0	2.6	140.0		
T-13/4 Standard 0.8" Lead 5.0 $\phi$	BL-B5114	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	6.0	45	D-014
	BL-B4114	GaAsP/GaP/Orange	635		45	80	30	150	2.0	2.6	50.0		
	BL-B2114	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	50.0		
	BL-B3114	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	40.0		
	BL-B2414	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.0	2.6	55.0	35	
	BL-B4614	GaAsP/GaP/Hi-Eff Red	635	Red Trans	45	80	30	150	2.0	2.6	55.0		
T-13/4 Standard 0.5" Lead 5.0 $\phi$	BL-B4524	GaAsP/GaP/Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	25.0	40	D-015
	BL-B2124	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	25.0		
	BL-B3124	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	20.0		
	BL-B4124	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	25.0	30	
	BL-B2424	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.2	2.6	65.0		
	BL-B3424	GaAsP/GaP/Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	50.0		
	BL-B2324	GaP/GaP/Green	568	Water Clear	30	80	30	150	2.2	2.6	65.0		
T1 3/4 Wide Viewing Angle 1.0" Lead 5.0 $\phi$	BL-B3334J	GaAsP/GaP/Yellow	585	Water Clear	35	80	30	150	2.1	2.6	120.0	20	D-016
	BL-B2334J	GaP/GaP/Green	568		30	80	30	150	2.2	2.6	140.0		
	BL-B4534J	GaAsP/GaP/Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	65.0	40	
	BL-B2134J	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	65.0		
	BL-B3134J	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	60.0		
	BL-B4134J	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	65.0		

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D-009 <b>BL-Bxx34B Series</b>	D-010 <b>BL-Bxx32 Series</b>
<p style="font-size: small;"> <math>\phi 4.80(.189)</math>              4.40(.173)              0.60(.024)              1.5(.059) MAX.              0.5(.02) SQ. TYP.              CATHODE              25.4(1.0) MIN.              1.0(.01) MIN.              2.54(.10) NOM.              5.90(.232)              FLAT DENOTES CATHODE         </p>	<p style="font-size: small;"> <math>\phi 4.00(.158)</math>              6.00(.236)              1.0(.04)              1.5(.059) MAX.              0.5(.02) SQ. TYP.              CATHODE              25.4(1.0) MIN.              1.0(.01) MIN.              2.54(.10) NOM.              4.60(.181)              FLAT DENOTES CATHODE         </p>
D-011 <b>BL-Bxx34 Series</b>	D-012 <b>BL-Bxx33N Series</b>
<p style="font-size: small;"> <math>\phi 5.0(.197)</math>              8.62(.339)              1.0(.04)              1.5(.059) MAX.              0.5(.02) SQ. TYP.              CATHODE              25.4(1.0) MIN.              1.0(.04) MIN.              2.54(.10) NOM.              5.7(.22)              FLAT DENOTES CATHODE         </p>	<p style="font-size: small;"> <math>\phi 4.8(.189)</math>              7.5(.295)              1.5(.059) MAX.              0.5(.02) SQ. TYP.              CATHODE              25.4(1.0) MIN.              1.0(.04) MIN.              2.54(.10) NOM.              4.8(.189)              FLAT DENOTES CATHODE         </p>
D-013 <b>BL-Bxx34N Series</b>	D-014 <b>BL-Bxx14 Series</b>
<p style="font-size: small;"> <math>\phi 5.0(.197)</math>              8.80(.346)              1.5(.059) MAX.              0.5(.02) SQ. TYP.              CATHODE              25.4(1.0) MIN.              1.0(.01) MIN.              2.54(.10) NOM.              5.0(.197)              FLAT DENOTES CATHODE         </p>	<p style="font-size: small;"> <math>\phi 5.00(.197)</math>              8.62(.339)              1.00(.039)              1.5(.059) MAX.              0.5(.02) SQ. TYP.              CATHODE              19.80(.780) MIN.              1.00(.039) MIN.              2.54(.100) NOM.              5.70(.224)              FLAT DENOTES CATHODE         </p>
D-015 <b>BL-Bxx24 Series</b>	D-016 <b>BL-Bxx34J Series</b>
<p style="font-size: small;"> <math>\phi 5.0(.197)</math>              8.6(.34)              1.0(.04)              1.5(.059) MAX.              0.5(.02) SQ. TYP.              CATHODE              12.70(.500) MIN.              1.0(.01) MIN.              2.29(.090) NOM.              5.7(.22)              FLAT DENOTES CATHODE         </p>	<p style="font-size: small;"> <math>\phi 5.00(.197)</math>              R2.48(.098)              8.70(.343)              1.00(.093)              1.5(.059) MAX.              0.50(.020) SQ. TYP.              Cathode              25.4(1.00) MIN.              1.00(.039) MIN.              2.54(.100) NOM.              5.80(.228)              FLAT DENOTES CATHODE         </p>

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