



Standard LED Lamps Round Types

Package	Part No.	Chip		Lens Appearance	Absolute Maximum Ratings				Electro-optical Data(At 20mA)			Viewing Angle 2θ 1/2 (deg)	Drawing No.
		Material/ Emitted Color	Peak Wave Length λp (nm)		Δλ (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf (V)		Iv (mcd)		
									Typ	Max	Typ.		
T-1 Standard 1.0" Lead 3φ	BL-B45V1	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	40	35	L-024
	BL-B21V1	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	40		
	BL-B31V1	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	30		
	BL-B24V1	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	80	30	
	BL-B34V1	GaAsP/GaP/ Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	65		
	BL-B43V1	GaAsP/GaP/ Hi-Eff Red	568	Water Clear	45	80	30	150	2.0	2.6	80		
	BL-BX13V1	GaP/GaP/ Hi-Eff Green	568		35	80	30	150	2.1	2.6	120		
T-1 1.0" Lead 3φ	BL-B45V1F	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	35	40	L-025
	BL-B21V1F	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	35		
	BL-B31V1F	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	30		
	BL-B24V1F	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	80	30	
	BL-B34V1F	GaAsP/GaP/ Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	60		
	BL-B43V1F	GaAsP/GaP/ Hi-Eff Red	568	Water Clear	45	80	30	150	2.0	2.6	80		
	BL-BX13V1F	GaP/GaP/ Hi-Eff Green	568		35	80	30	150	2.1	2.6	120		
T-1 1.0" Lead 3φ	BL-B45V1G	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	40	35	L-026
	BL-B21V1G	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	40		
	BL-B31V1G	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	30		
	BL-B24V1G	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	80	30	
	BL-B34V1G	GaAsP/GaP/ Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	65		
	BL-B43V1G	GaAsP/GaP/ Hi-Eff Red	568	Water Clear	45	80	30	150	2.0	2.6	80		
	BL-BX13V1G	GaP/GaP/ Hi-Eff Green	568		35	80	30	150	2.1	2.6	120		
1.0" Lead High Flangeless 3.4φ	BL-B51V1H	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	13.0	30	L-027
	BL-B45V1H	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	40.0		
	BL-B21V1H	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	50.0		
	BL-B31V1H	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	30.0	25	
	BL-B24V1H	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	100		
	BL-B46V1H	GaAsP/GaP/ Hi-Eff Red	635	Red Trans	45	80	30	150	2.0	2.6	100		
T-1 1.0" Lead High Flangeless 3.0φ	BL-B51V1J	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	13.0	35	L-028
	BL-B45V1J	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	40.0		
	BL-B21V1J	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	50.0		
	BL-B31V1J	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	30.0	30	
	BL-B24V1J	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	100		
T-1 1.0" Lead 3.0φ	BL-B43V1M	GaAsP/GaP/ Hi-Eff Red	635	Water Clear	45	80	30	150	2.0	2.6	100	15	L-029
	BL-B23V1M	GaP/GaP/ Green	568		30	80	30	150	2.0	2.6	100		
	BL-B33V1M	GaAsP/GaP/ Yellow	585	35	80	30	150	2.1	2.6	30			
	BL-B44V1M	GaAsP/GaP/ Hi-Eff Red	635	Orange Trans	45	80	30	150	2.0	2.6	100	30	
	BL-B24V1M	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	100		
T-1 1.0" Lead 3.0φ	BL-B2141P	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	35	40	L-030
	BL-B3141P	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	30		
	BL-B4541P	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	35		
	BL-B2341P	GaP/GaP/ Green	568	Water Clear	30	80	30	150	2.2	2.6	80	30	
	BL-B3341P	GaAsP/GaP/ Yellow	585		35	80	30	150	2.1	2.6	60		
	BL-B4341P	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	80		
T-1 Standard 1.0" Lead 3.1φ	BL-B4541Q	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	60.0	40	L-031
	BL-B2141Q	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	60.0		
	BL-B3141Q	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	50.0		
	BL-B4141Q	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	60.0	35	
	BL-B3341Q	GaAsP/GaP/ Yellow	585	Water Clear	35	80	30	150	2.1	2.6	90.0		
	BL-B2341Q	GaP/GaP/ Green	568		30	80	30	150	2.2	2.6	110.0		
BL-BX1341Q	GaP/GaP/ Hi-Eff Green	568		30	80	30	150	2.1	2.6	150.0			

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.

LMP-14



Standard LED Lamps Round Types

L-024 BL-BxxV1 Series	L-025 BL-BxxV1F Series
<p>Technical drawing of BL-BxxV1 Series lamp. Dimensions include: diameter $\phi 3.00(.118)$, height $5.30(.209)$, max width $1.5(.059)$ MAX., cathode length $25.4(1.00)$ MIN., base width $2.54(.100)$ NOM., and cathode diameter $3.80(.150)$. A note indicates "FLAT DENOTES CATHODE".</p>	<p>Technical drawing of BL-BxxV1F Series lamp. Dimensions include: diameter $\phi 3.05(.120)$, height $5.2(.205)$, max width $1.5(.059)$ MAX., cathode length $25.4(1.0)$ MIN., base width $2.54(.10)$ NOM., and cathode diameter $4.00(.157)$.</p>
L-026 BL-BxxV1G Series	L-027 BL-BxxV1H Series
<p>Technical drawing of BL-BxxV1G Series lamp. Dimensions include: diameter $\phi 3.05(.120)$, height $5.40(.213)$, max width $1.8(.071)$, cathode length $25.4(1.00)$ MIN., base width $2.54(.100)$ NOM., and cathode diameter $3.95(.156)$.</p>	<p>Technical drawing of BL-BxxV1H Series lamp. Dimensions include: diameter $\phi 3.35(.132)$, height $6.00(.236)$, max width $1.5(.059)$ MAX., cathode length $25.4(1.0)$ MIN., base width $2.54(.10)$ NOM., and cathode diameter $3.35(.132)$.</p>
L-028 BL-BxxV1J Series	L-029 BL-BxxV1M Series
<p>Technical drawing of BL-BxxV1J Series lamp. Dimensions include: diameter $\phi 3.0(.118)$, height $5.10(.201)$, max width $1.5(.059)$ MAX., cathode length $25.4(1.0)$ MIN., base width $2.54(.10)$ NOM., and cathode diameter $3.00(.118)$.</p>	<p>Technical drawing of BL-BxxV1M Series lamp. Dimensions include: diameter $\phi 2.78(.109)$, height $5.2(.205)$, max width $1.5(.059)$ MAX., cathode length $25.4(1.0)$ MIN., base width $2.54(.10)$ NOM., and cathode diameter $4.0(.158)$. A note indicates "FLAT DENOTES CATHODE".</p>
L-030 BL-Bxx41P Series	L-031 BL-Bxx41Q Series
<p>Technical drawing of BL-Bxx41P Series lamp. Dimensions include: diameter $\phi 3.00(.118)$, height $5.30(.209)$, max width $1.5(.059)$ MAX., cathode length $25.4(1.00)$ MIN., base width $2.54(.100)$ NOM., and cathode diameter $3.80(.150)$. A note indicates "Flat Denotes Cathode".</p>	<p>Technical drawing of BL-Bxx41Q Series lamp. Dimensions include: diameter $\phi 3.10(.122)$, height $4.80(.189)$, max width $1.5(.059)$ MAX., cathode length $25.4(1.00)$ MIN., base width $2.54(.100)$ NOM., and cathode diameter $3.80(.150)$.</p>

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



Standard LED Lamps Round Types

Package	Part No.	Chip		Lens Appearance	Absolute Maximum Ratings				Electro-optical Data(At 20mA)			Viewing Angle 2 θ 1/2 (deg)	Drawing No.
		Material/ Emitted Color	Peak Wave Length λ p (nm)		Δλ (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf (V)		Iv (mcd)		
									Typ	Max	Typ.		
T-1 1.0" Lead 3.55φ	BL-B51V1T	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	6.0	35	L-032
	BL-B45V1T	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	70.0		
	BL-B21V1T	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	70.0		
	BL-B31V1T	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	60.0		
	BL-B24V1T	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	120.0		
	BL-B34V1T	GaAsP/GaP/ Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	100.0	30	
T-1 Flangeless 1.0"Lead 2.9φ	BL-B51V1V	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	8.0	45	L-033
	BL-B45V1V	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	20.0		
	BL-B21V1V	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	20.0		
	BL-B31V1V	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	15.0		
	BL-B24V1V	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	100		
	BL-B46V1V	GaAsP/GaP/ Hi-Eff Red	635	Red Trans	45	80	30	150	2.0	2.6	100	35	
T-1 1.0"Lead 3.0φ	BL-B51V1X	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	8.0	40	L-034
	BL-B45V1X	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	25.0		
	BL-B21V1X	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	25.0		
	BL-B31V1X	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	20.0		
	BL-B24V1X	GaP/GaP/ Hi-Eff Green	568	Green Trans	30	80	30	150	2.0	2.6	100		
T-1 1.0"Lead 3.0φ	BL-B43V1Z	GaAsP/GaP/ Orange	635	Water Clear	45	80	30	150	2.0	2.6	100	35	L-035
	BL-B23V1Z	GaP/GaP/ Green	568		30	80	30	150	2.0	2.6	100		
	BL-B33V1Z	GaAsP/GaP / Yellow	585	35	80	30	150	2.1	2.6	80			
	BL-B44V1Z	GaAsP/GaP/ Orange	635	Orange Trans	45	80	30	150	2.0	2.6	100		
	BL-B24V1Z	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	100		
Standard 1.0" Lead 4.0φ	BL-B5132	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	12.0	55	L-036
	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	
Medium Profile Flangeless 1.0" Lead 4.7φ	BL-B4533	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	80.0	40	L-037
	BL-B2133	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	80.0		
	BL-B3133	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	70.0		
	BL-B4133	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	80.0		
	BL-B3333	GaAsP/GaP/ Yellow	585	Water Clear	35	80	30	150	2.1	2.6	100.0		
	BL-B2333	GaP/GaP/ Green	568		30	80	30	150	2.2	2.6	130.0		
	BL-B4333	GaAsP/GaP/ Orange	635	45	80	30	150	2.0	2.6	130.0			
Medium Profile Flangeless 1.0" Lead 4.8φ	BL-B5133N	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	25.0	40	L-038
	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		
	BL-B3433N	GaAsP/GaP/ Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	100.0		
T-1 1.0" Lead 3φ	BL-B51V5D	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	8.0	40	L-039
	BL-B45V5D	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	30.0		
	BL-B21V5D	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	30.0		
	BL-B31V5D	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	25.0		
	BL-B24V5D	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	80.0		
	BL-B34V5D	GaAsP/GaP/ Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	60.0		
	BL-B46V5D	GaAsP/GaP/ Hi-Eff Red	635	Red Trans	45	80	30	150	2.0	2.6	80.0	35	

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

2. Trans / Transparent.

3. 20 1/2 The off-axis angle at which the luminous intensity is half the axial luminous intensity.



Standard LED Lamps Round Types

<p>L-032 BL-BxxV1T Series</p>	<p>L-033 BL-BxxV1V Series</p>
<p>L-034 BL-BxxV1X Series</p>	<p>L-035 BL-BxxV1Z Series</p>
<p>L-036 BL-Bxx32 Series</p>	<p>L-037 BL-Bxx33 Series</p>
<p>L-038 BL-Bxx33N Series</p>	<p>L-039 BL-BxxV5D Series</p>

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



Standard LED Lamps Round Types

Package	Part No.	Chip		Lens Appearance	Absolute Maximum Ratings				Electro-optical Data(At 20mA)			Viewing Angle 2θ 1/2 (deg)	Drawing No.
		Material/ Emitted Color	Peak Wave Length λ _p (nm)		Δλ (nm)	Pd (mw)	If (mA)	Peak (mA)	V _f (V)		I _v (mcd)		
									Typ	Max	Typ.		
T-13/4 Standard 0.8"Lead 5.0φ	BL-B5114	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	6.0	45	L-040
	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		
	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 5.0φ	BL-B4524	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	25.0	40	L-041
	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		
	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		
	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			
T-13/4 Standard 1.0"Lead 5.0φ	BL-B2134	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	80.0	35	L-042
	BL-B3134	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	70.0		
	BL-B2434	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	200		
	BL-B4634	GaAsP/GaP/ Yellow	635	Red Trans	45	80	30	150	2.0	2.6	200		
	BL-B5134-1	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	8.0		
BL-B4534-1	GaAsP/GaP/ Hi-Eff Red	635	45		80	30	150	2.0	2.6	65.0			
T-13/4 Wide Viewing Angle 1.0"Lead 5.0φ	BL-B2134-1	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	65.0	40	L-043
	BL-B3134-1	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	55.0		
	BL-B2434-1	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	160		
	BL-B4334A	GaAsP/GaP/ Orange	635	Water Clear	45	80	30	150	2.0	2.6	60.0		
	BL-B2334A	GaP/GaP/ Green	568		30	80	30	150	2.0	2.6	60.0		
T-13/4 Low Profile 1.0"Lead 5.0φ	BL-B3334A	GaAsP/GaP/ Yellow	585	Orange Trans	35	80	30	150	2.1	2.6	50.0	30	L-044
	BL-B4434A	GaAsP/GaP/ Orange	635	Orange Trans	45	80	30	150	2.0	2.6	60.0		
	BL-B2434A	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	60.0		
	BL-B5134B	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	4.0		
	BL-B4534B	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	25.0		
1.0" Lead 4.8φ	BL-B2134B	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	25.0	30	L-045
	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		
	BL-B4634B	GaAsP/GaP/ Orange	635	Red Trans	45	80	30	150	2.0	2.6	100		
	BL-B4534C	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	40		
1.0" Lead 5.0φ	BL-B2134C	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	40	35	L-046
	BL-B3134C	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	30		
	BL-B4134C	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	40		
	BL-B2334C	GaP/GaP/ Green	568	Water Clear	30	80	30	150	2.2	2.6	90		
	BL-B3334C	GaAsP/GaP/ Yellow	585		35	80	30	150	2.1	2.6	80		
	BL-B4334C	GaAsP/GaP/ Orange	635		45	80	30	150	2.0	2.6	90		
BL-B5134G	GaP/GaP/ Bright Red	700	Red Diffused		90	40	15	50	2.2	2.6	12.0		
BL-B4534G	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	80.0			
T1 3/4 Standard 1.0" Lead 5.0φ	BL-B2134G	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	80.0	35	L-047
	BL-B3134G	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	70.0		
	BL-B4134G	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	80.0		
	BL-B2434G	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	200.0		
	BL-B2434G	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	200.0		

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.

LMP-18

AMERICAN BRIGHT

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Standard LED Lamps Round Types

L-040	L-041
<p>BL-Bxx14 Series</p>	<p>BL-Bxx24 Series</p>
<p>BL-Bxx34 Series</p>	<p>BL-Bxx34-1 Series</p>
<p>BL-Bxx34A Series</p>	<p>BL-Bxx34B Series</p>
<p>BL-Bxx34C Series</p>	<p>BL-Bxx34G Series</p>

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



Standard LED Lamps Round Types

Package	Part No.	Chip		Lens Appearance	Absolute Maximum Ratings				Electro-optical Data(At 20mA)			Viewing Angle 2θ 1/2 (deg)	Drawing No.
		Material/ Emitted Color	Peak Wave Length λ _p (nm)		Δλ (nm)	Pd (mw)	If (mA)	Peak (mA)	V _f (V)		I _v (mcd)		
									Typ	Max			
T1 3/4 Wide Viewing Angle 1.0" Lead 5.0φ	BL-B4534G-1	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	65.0	45	L-048
	BL-B2134G-1	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	65.0		
	BL-B3134G-1	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	60.0		
	BL-B4134G-1	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	65.0	20	
	BL-B3334G-1	GaAsP/GaP/ Yellow	585	Water Clear	35	80	30	150	2.1	2.6	140.0		
	BL-B2334G-1	GaP/GaP/ Green	568		30	80	30	150	2.2	2.6	150.0		
BL-B4334G-1	GaAsP/GaP/ Orange	635	45		80	30	150	2.0	2.6	150.0			
T1 3/4 Wide Viewing Angle 1.0" Lead 5.0φ	BL-B4534J	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	65.0	40	L-049
	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	20	
	BL-B3334J	GaAsP/GaP/ Yellow	585	Water Clear	35	80	30	150	2.1	2.6	120.0		
	BL-B2334J	GaP/GaP/ Green	568		30	80	30	150	2.2	2.6	140.0		
BL-B4334J	GaAsP/GaP/ Orange	635	45		80	30	150	2.0	2.6	140.0			
T1 3/4 Standard 1.0" Lead 5.0φ	BL-B5134M	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	12.0	25	L-050
	BL-B4534M	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	80.0		
	BL-B2134M	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	80.0		
	BL-B3134M	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	70.0		
	BL-B4134M	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	80.0		
	BL-B2434M	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.2	2.6	200.0		
T1 3/4 Wide Viewing Angle 1.0" Lead 5.0φ	BL-B4534M-1	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	65.0	30	L-051
	BL-B2134M-1	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	65.0		
	BL-B3134M-1	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	60.0		
	BL-B4134M-1	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	65.0	15	
	BL-B3334M-1	GaAsP/GaP/ Yellow	585	Water Clear	35	80	30	150	2.1	2.6	140.0		
	BL-B2334M-1	GaP/GaP/ Green	568		30	80	30	150	2.2	2.6	150.0		
BL-B4334M-1	GaAsP/GaP/ Orange	635	45		80	30	150	2.0	2.6	150.0			
T-13/4 Flangeless 1.0"Lead 5.0φ	BL-B5134N	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	13.0	40	L-052
	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		
	BL-B4334N	GaAsP/GaP/ Orange	635	Water Clear	45	80	30	150	2.0	2.6	140.0		
T-13/4 Flangeless 1.0"Lead 5.0φ	BL-B5134N-1	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	9.0	45	L-053
	BL-B4534N-1	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	70.0		
	BL-B2134N-1	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	70.0		
	BL-B3134N-1	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	60.0		
	BL-B2434N-1	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	120.0		
	BL-B4334N-1	GaAsP/GaP/ Orange	635	Water Clear	45	80	30	150	2.0	2.6	120.0		
T-13/4 Flangeless 1.0"Lead 5.0φ	BL-B5134P	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	2.0	160	L-054
	BL-B4534P	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	10.0		
	BL-B2134P	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	10.0		
	BL-B3134P	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	8.0		
	BL-B2434P	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	20.0		
	BL-B4334P	GaAsP/GaP/ Orange	635	Water Clear	45	80	30	150	2.0	2.6	120.0		
T-13/4 Flangeless 1.0"Lead 5.0φ	BL-B5134Q	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	5.0	50	L-055
	BL-B4534Q	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	55		
	BL-B2134Q	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	55		

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.

LMP-20



Standard LED Lamps Round Types

L-048	L-049
<p>BL-Bxx34G-1 Series</p>	<p>BL-Bxx34J Series</p>
<p>L-050</p> <p>BL-Bxx34M Series</p>	<p>L-051</p> <p>BL-Bxx34M-1 Series</p>
<p>L-052</p> <p>BL-Bxx34N Series</p>	<p>L-053</p> <p>BL-Bxx34N-1 Series</p>
<p>L-054</p> <p>BL-Bxx34P Series</p>	<p>L-055</p> <p>BL-Bxx34Q Series</p>

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



Standard LED Lamps Round Types

Package	Part No.	Chip		Lens Appearance	Absolute Maximum Ratings				Electro-optical Data(At 20mA)			Viewing Angle 2θ 1/2 (deg)	Drawing No.
		Material/ Emitted Color	Peak Wave Length λp (nm)		Δλ (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf (V)		Iv (mcd)		
									Typ	Max			
T1 3/4 Narrow Viewing Angle 1.0" Lead 5.2φ	BL-B5137B	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	7.0	40	L-056
	BL-B4537B	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	90.0		
	BL-B2137B	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	90.0		
	BL-B3137B	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	80.0		
	BL-B4137B	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	90.0		
T1 3/4 Flangeless 1.0" Lead 5.0φ	BL-B9137B	GaP/GaP / Pure Green	555	Green Diffused	25	80	30	150	2.2	2.6	2.0	35	L-057
	BL-B4537D	GaAsP/GaP / Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	90.0		
	BL-B2137D	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	90.0		
	BL-B3137D	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	80.0		
	BL-B4537D	GaAsP/GaP/ Hi-Eff Red	635	Orange Diffused	45	80	30	150	2.0	2.6	90.0		
	BL-B3337D	GaAsP/GaP/ Yellow	585	Water Clear	35	80	30	150	2.1	2.6	150.0		
	BL-B2337D	GaP/GaP/ Green	568		30	80	30	150	2.2	2.6	180.0		
BL-B4337D	GaAsP/GaP/ Orange	635	45		80	30	150	2.0	2.6	180.0			
T1 3/4 Flangeless 1.0" Lead 5.2φ	BL-B5137E	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	5.0	35	L-058
	BL-B4537E	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	50.0		
	BL-B2137E	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	50.0		
	BL-B3137E	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	45.0		
	BL-B4137E	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	50.0		
T1 3/4 Narrow Viewing Angle 1.0" Lead 5.0φ	BL-B9137E	GaP/GaP / Pure Green	555	Green Diffused	25	80	30	150	2.2	2.6	15.0	15	L-059
	BL-B4537M	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	90.0		
	BL-B2137M	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	90.0		
	BL-B3137M	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	80.0		
	BL-B4137M	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	90.0		
	BL-B3337M	GaAsP/GaP/ Yellow	585	Water Clear	35	80	30	150	2.1	2.6	150.0		
BL-B2337M	GaP/GaP/ Green	568	30		80	30	150	2.2	2.6	180.0			
BL-B4337M	GaAsP/GaP/ Orange	635	45		80	30	150	2.0	2.6	180.0			
T1 3/4 1.0" Lead 5.0φ	BL-B5137M-1	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	5.0	45	L-060
	BL-B4537M-1	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	50.0		
	BL-B2137M-1	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	50.0		
	BL-B3137M-1	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	45.0		
	BL-B2337M-1	GaP/GaP/ Green	568	Water Clear	30	80	30	150	2.2	2.6	150.0		
	BL-B4337M-1	GaAsP/GaP/ Orange	635		45	80	30	150	2.0	2.6	150.0		
T1 3/4 Flangeless 1.0" Lead 4.8φ	BL-B4537N	GaAsP/GaP/ Hi-Eff Red	635	Red Diffused	45	80	30	150	2.0	2.6	65.0	45	L-061
	BL-B2137N	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	65.0		
	BL-B3137N	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	55.0		
	BL-B4137N	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	65.0		
	BL-B2337N	GaP/GaP/ Green	568	Water Clear	30	80	30	150	2.2	2.6	100.0		
	BL-B3337N	GaAsP/GaP/ Yellow	585		35	80	30	150	2.1	2.6	80.0		
	BL-B4637N	GaAsP/GaP/ Hi-Eff Red	635	Red Trans	45	80	30	150	2.0	2.6	100.0		
1.0"Lead 4.8φ	BL-B5138	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	5.0	40	L-062
	BL-B4538	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	60.0		
	BL-B2138	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	60.0		
	BL-B3138	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	55.0		
1.0"Lead 4.6φ	BL-B2438	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	90.0	25	L-063
	BL-B5138A	GaP/GaP/ Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	6.0	35	
	BL-B4538A	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	70.0		
	BL-B2138A	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	70.0		
	BL-B3138A	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	60.0		
BL-B2438A	GaP/GaP/ Green	568	Green Trans	30	80	30	150	2.0	2.6	100.0	20		

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.

LMP-22



Standard LED Lamps Round Types

L-056 BL-Bxx37B Series	L-057 BL-Bxx37D Series
L-058 BL-Bxx37E Series	L-059 BL-Bxx37M Series
L-060 BL-Bxx37M-1 Series	L-061 BL-Bxx37N Series
L-062 BL-Bxx38 Series	L-063 BL-Bxx38A Series

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