



Standard LED Lamps BL-S Series

Tower 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)		Δ λ (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf (V)		Iv (mcd)		
									Typ	Max	Typ.		
1.0" Lead Tower φ 2.9	BL-S1132	GaAsP/GaAs/ Red	655	Red Diffused	40	80	40	200	1.7	2.0	0.8	100	L-121
	BL-S5132	GaP/GaP/ Bright Red	700		90	40	15	50	2.2	2.6	1.2		
	BL-S4532	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	6.0		
	BL-S2132	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	6.0		
	BL-SX1132	GaAsP/GaP/ Hi-Eff Green	568		30	80	30	150	2.2	2.6	9.0		
	BL-S3132	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	5.0		
BL-S4132	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	6.0			
1.0" Lead Tower φ 2.75	BL-S1133	GaAsP/GaAs/ Red	655	Red Diffused	40	80	40	200	1.7	2.0	1.0	100	L-122
	BL-S5133	GaP/GaP/ Bright Red	700		90	40	15	50	2.2	2.6	1.4		
	BL-S4533	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	6.0		
	BL-S2133	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	6.0		
	BL-SX1133	GaAsP/GaP/ Hi-Eff Green	568		30	80	30	150	2.2	2.6	9.0		
	BL-S3133	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	5.0		
BL-S4133	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	6.0			
1.0" Lead Tower φ 2.0	BL-S1136	GaAsP/GaAs/ Red	655	Red Diffused	40	80	40	200	1.7	2.0	0.8	70	L-123
	BL-S5136	GaP/GaP/ Bright Red	700		90	40	15	50	2.2	2.6	1.2		
	BL-S4536	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	7.0		
	BL-S2136	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	7.0		
	BL-SX1136	GaAsP/GaP/ Hi-Eff Green	568		30	80	30	150	2.2	2.6	10.0		
	BL-S3136	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	6.0		
BL-S4136	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	7.0			
1.0" Lead Tower φ 3.0	BL-S1137	GaAsP/GaAs/ Red	655	Red Diffused	40	80	40	200	1.7	2.0	2.5	100	L-124
	BL-S5137	GaP/GaP/ Bright Red	700		90	40	15	50	2.2	2.6	15		
	BL-S4537	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	22		
	BL-S2137	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	22		
	BL-SX1137	GaAsP/GaP/ Hi-Eff Green	568		30	80	30	150	2.2	2.6	25		
	BL-S3137	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	21		
BL-S4137	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	22			
1.0" Lead Tower φ 3.0	BL-S1137A	GaAsP/GaAs/ Red	655	Red Diffused	40	80	40	200	1.7	2.0	2.5	70	L-125
	BL-S5137A	GaP/GaP/ Bright Red	700		90	40	15	50	2.2	2.6	15		
	BL-S4537A	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	22		
	BL-S2137A	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	22		
	BL-SX1137A	GaAsP/GaP/ Hi-Eff Green	568		30	80	30	150	2.2	2.6	25		
	BL-S3137A	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	21		
BL-S4137A	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	22			
1.0" Lead Tower φ 1.8	BL-S1148	GaAsP/GaAs/ Red	655	Red Diffused	40	80	40	200	1.7	2.0	0.6	70	L-126
	BL-S5148	GaP/GaP/ Bright Red	700		90	40	15	50	2.2	2.6	1.0		
	BL-S4548	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	5.0		
	BL-S2148	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	5.0		
	BL-SX1148	GaAsP/GaP/ Hi-Eff Green	568		30	80	30	150	2.2	2.6	8.0		
	BL-S3148	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	4.0		
BL-S4148	GaAsP/GaP/ Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	5.0			
1.0" Lead Tower φ 2.0	BL-S1149	GaAsP/GaAs/ Red	655	Red Diffused	40	80	40	200	1.7	2.0	0.6	100	L-127
	BL-S5149	GaP/GaP/ Bright Red	700		90	40	15	50	2.2	2.6	1.0		
	BL-S4549	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	8.0		
	BL-S2149	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	8.0		
	BL-S31149	GaAsP/GaP/ Yellow	585	Yellow Diffused	30	80	30	150	2.2	2.6	7.0		
BL-S4149	GaAsP/GaP/ Orange	635	Orange Diffused	35	80	30	150	2.1	2.6	8.0			
1.0" Lead Tower φ 2.0	BL-S1149A	GaAsP/GaAs/ Red	655	Red Diffused	40	80	40	200	1.7	2.0	0.6	120	L-128
	BL-S5149A	GaP/GaP/ Bright Red	700		90	40	15	50	2.2	2.6	1.0		
	BL-S4549A	GaAsP/GaP/ Hi-Eff Red	635		45	80	30	150	2.0	2.6	8.0		
	BL-S2149A	GaP/GaP/ Green	568	Green Diffused	30	80	30	150	2.2	2.6	8.0		
	BL-S31149A	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	7.0		

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

2.Trans / Transparent.

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



L-121 BL-Sxx32 Series Dimensions (mm): 5.0(.197), 3.0(.118), 2.6(.102), 3.4(.134), 1.2(.047), 1.5(.059) MAX., 25.4(1.00) MIN., 0.5(.02) SQ. TYP., 1.0(.039) MIN., 2.54(.100) NOM., 5.5(.217).	L-122 BL-Sxx33 Series Dimensions (mm): 2.75(.108), 3.0(.118), 5.0(.197), 1.5(.059) MAX., 25.4(1.0) MIN., 0.5(.02) SQ. TYP., 1.0(.039) MIN., 2.54(.100) NOM., 3.90(.154), 4.20(.165).
L-123 BL-Sxx36 Series Dimensions (mm): 4.6(.181), 2.0(.079), 4.6(.181), 3.8(.150), 1.5(.059) MAX., 25.4(1.00) MIN., 0.5(.02) SQ. TYP., 1.0(.039) MIN., 2.54(.100) NOM., 2.4(.094), 2.0(.079), 4.8(.189), 2.5(.098).	L-124 BL-Sxx37 Series Dimensions (mm): 4.9(.193), 2.8(.110), 4.5(.177), 3.0(.118), 5.5(.217), 1.5(.059) MAX., 25.4(1.00) MIN., 0.5(.02) SQ. TYP., 1.0(.039) MIN., 2.54(.100) NOM., 5.0(.197). FLAT DENOTES ANODE.
L-125 BL-Sxx37A Series Dimensions (mm): 3.45(.136), 2.92(.115), 4.50(.177), 9.50(.374), 13.08(.515), 1.5(.059) MAX., 25.40(1.00) MIN., 0.5(.02) SQ. TYP., 1.0(.039) MIN., 2.54(.10) NOM., 4.78(.188).	L-126 BL-Sxx48 Series Dimensions (mm): 3.3(.130), 1.8(.071), 3.0(.118), 1.6(.063), 1.5(.059) MAX., 25.4(.100) MIN., 0.5(.02) SQ. TYP., 1.0(.039) MIN., 2.54(.100) NOM., 3.3(.130), 1.78(.067), 2.4(.094).
L-127 BL-Sxx49 Series Dimensions (mm): 3.7(.146), 2.0(.079), 2.5(.098), 1.5(.059) MAX., 2.9(.114), 25.4(1.00) MIN., 0.5(.02) SQ. TYP., 1.0(.039) MIN., 2.54(.100) NOM., 3.9(.154), 2.0(.079).	L-128 BL-Sxx49A Series Dimensions (mm): 1.6(.062), 2.0(.078), 3.1(.122), 3.5(.137), 1.5(.059) MAX., 25.4(1.00) MIN., 0.5(.02) SQ. TYP., 1.0(.039) MIN., 2.54(.100) NOM., 2.65(.104), 2.75(.11), 3.7(.145), 2.75(.11).

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