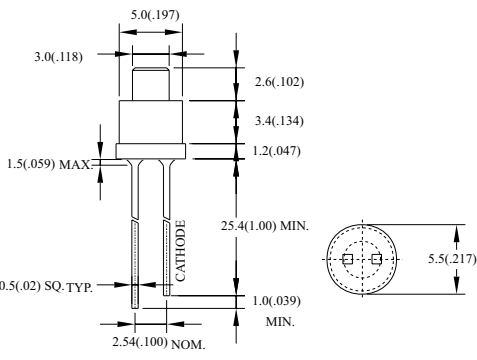
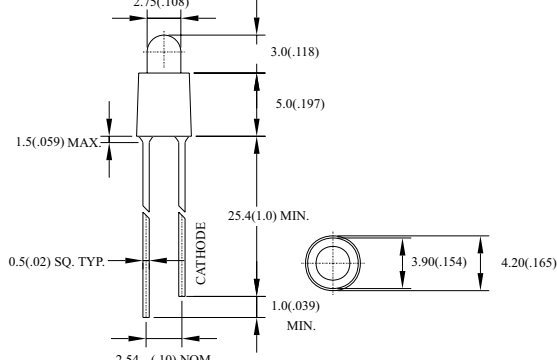
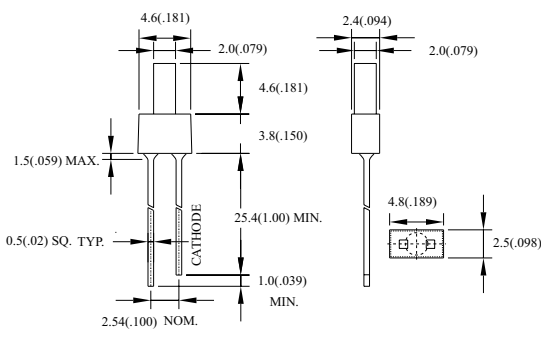
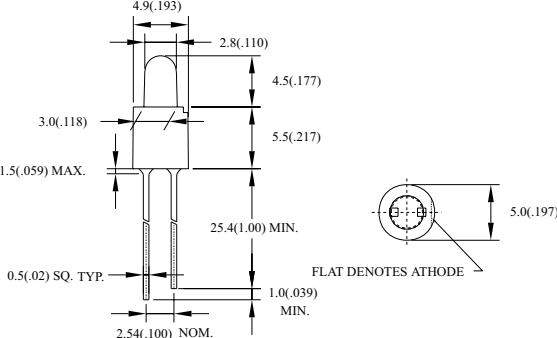
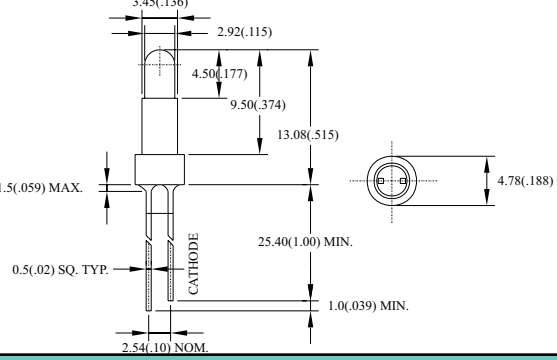
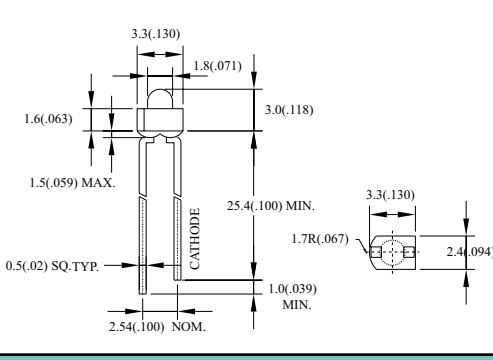
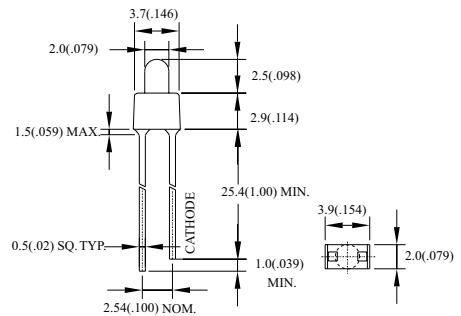
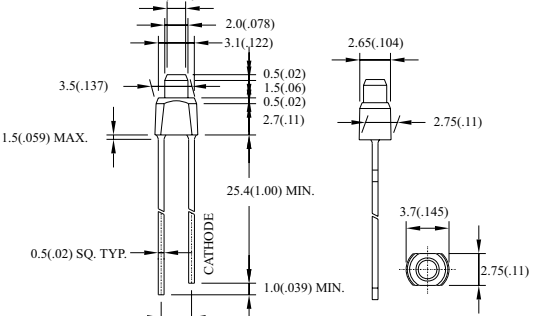




# STANDARD LED LAMPS(TOWER TYPES)

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.		
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		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		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		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		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		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		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		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		
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		30	80	30	150	2.2	2.6	8.0		
BL-S4149A	GaAsP/GaP/ Orange	635	Orange Diffused	35	80	30	150	2.1	2.6	7.0			

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.

L-121 BL-Sxx32 Series	L-122 BL-Sxx33 Series
	
L-123 BL-Sxx36 Series	L-124 BL-Sxx37 Series
	
L-125 BL-Sxx37A Series	L-126 BL-Sxx48 Series
	
L-127 BL-Sxx49 Series	L-128 BL-Sxx49A Series
	

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