



# STANDARD LED LAMPS (RECTANGULAR TYPES)

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)		DI (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf (V)		Iv (mcd)		
									Typ	Max	Typ.		
2.0x4.0x 7.0mm 1.0" Lead Rectangular Flangeless	BL-R5131	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	1.0	120	L-025
	BL-R4531	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	7.0		
	BL-R2131	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	7.0		
	BL-R3131	GaAsP/GaAs/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	6.0		
	BL-R4131	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	7.0		
	BL-R9131	GaP/GaP/Pure Green	555	Green Diffused	25	80	30	150	2.2	2.6	1.0		
1.3x4.0x 4.0mm 1.0" Lead Rectangular	BL-R5421D	GaP/GaP/Bright Red	700	Red Trans	90	40	15	50	2.2	2.6	6.0	80	L-026
	BL-R4621D	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	12.0		
	BL-R2421D	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.2	2.6	12.0		
	BL-R3421D	GaAsP/GaP/Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	10.0		
	BL-R4421D	GaAsP/GaP/Orange	635	Orange Trans	25	80	30	150	2.0	2.6	12.0		
	BL-R9421D	GaP/GaP/Pure Green	555	Green Trans	30	80	30	150	2.2	2.6	1.0		
1.9x3.1x 4.0mm 0.5" Lead Rectangular	BL-R5121F	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	0.6	120	L-027
	BL-R4521F	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	3.0		
	BL-R2121F	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	3.0		
	BL-R3121F	GaAsP/GaP/ Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	2.5		
	BL-R4121F	GaAsP/GaP/Orange	635	Orange Diffused	25	80	30	150	2.0	2.6	3.0		
1.2x3.4x 4.0mm 0.5" Lead Rectangular	BL-R5421G	GaP/GaP/Bright Red	700	Red Trans	90	40	15	50	2.2	2.6	0.6	60	L-028
	BL-R4621G	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	3.5		
	BL-R2421G	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.2	2.6	3.5		
	BL-R3421G	GaAsP/GaP/Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	3.0		
1.7x4.0x 6.9mm 1.0" Lead Rectangular	BL-R5141H	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	1.0	140	L-029
	BL-R4541H	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	4.0		
	BL-R2141H	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	4.0		
	BL-R3141H	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	3.0		
	BL-R4141H	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	4.0		
	BL-R9141H	GaP/GaP/Pure Green	555	Green Diffused	25	80	30	150	2.2	2.6	0.5		
2.0x5.0x 7.8mm 1.0" Lead Rectangular	BL-R5132	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	6.0	120	L-030
	BL-R4632	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	10.0		
	BL-R2132	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	10.0		
	BL-R3132	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	8.0		
	BL-R4132	GaAsP/GaP/Orange	635	Orange Diffused	25	80	30	150	2.0	2.6	10.0		
	BL-R9132	GaP/GaP/Pure Green	555	Green Diffused	30	80	30	150	2.2	2.6	1.5		
2.0x5.0x 7.5mm 1.0" Lead Rectangular	BL-R5132B	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	0.8	120	L-031
	BL-R4532B	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	5.0		
	BL-R2132B	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	5.0		
	BL-R3132B	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	4.0		
	BL-R4132B	GaAsP/GaP/Orange	635	Orange Diffused	25	80	30	150	2.0	2.6	0.4		
2.5x5.1x 5.4mm 1.0" Lead Rectangular	BL-R5132C	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	0.8	130	L-032
	BL-R4532C	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	4.0		
	BL-R2132C	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	4.0		
	BL-R3132C	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	3.0		



# STANDARD LED LAMPS (RECTANGULAR TYPES)

L-025 BL-Rxx31 Series	L-026 BL-Rxx21D Series
L-027 BL-Rxx21F Series	L-028 BL-Rxx21G Series
L-029 BL-Rxx41H Series	L-030 BL-Rxx32 Series
L-031 BL-Rxx32B Series	L-032 BL-Rxx32C Series

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



# STANDARD LED LAMPS (RECTANGULAR TYPES)

Package	Part No.	Chip		Lens Appearance	Absolute Maximum Ratings				Electro-optical Data (At 20mA)			Viewing Angle 2 $\theta$ 1 $\sigma$ (deg)	Drawing No.
		Material/Emitted Color	Peak Wave Length $\lambda_p$ (nm)		I (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf (V)		Iv (mcd)		
									Typ	Max	Typ		
1.9x5.0x6.8mm 1.0" Lead Rectangular	BL-R5132R	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	1.2	140	L-033
	BL-R4532R	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	8.0		
	BL-R2132R	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	8.0		
	BL-R3132R	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	7.0		
	BL-R4132R	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	8.0		
	BL-RX1132R	GaP/GaP/Hi-Eff Green	568	Green Diffused	30	80	30	150	2.2	2.6	12.0		
2.4x5.0x8.6mm 1.0" Lead Rectangular	BL-R5432T	GaP/GaP/Bright Red	700	Red Trans	90	40	15	50	2.2	2.6	30.0	40	L-034
	BL-R4632T	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	80.0		
	BL-R2432T	GaP/GaP/Green	568	Green Trans	30	80	30	150	2.2	2.6	80.0		
	BL-R3432T	GaAsP/GaP/Yellow	585	Yellow Trans	35	80	30	150	2.1	2.6	70.0		
	BL-R4432T	GaAsP/GaP/Orange	635	Orange Trans	45	80	30	150	2.0	2.6	80.0		
	BL-RX1432T	GaP/GaP/Hi-Eff Green	568	Green Trans	30	100	30	150	2.2	2.6	100		
1.4x4.7x7.0mm 1.0" Lead Rectangular	BL-R5133	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	0.8	125	L-035
	BL-R4533	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	5.0		
	BL-R2133	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	5.0		
	BL-R3133	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	4.0		
	BL-R4133	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	5.0		
	BL-RX1133	GaP/GaP/Pure Green	568	Green Diffused	30	80	30	150	2.2	2.6	8.0		
5.0x5.0x7.1mm 1.0" Lead Rectangular	BL-R5130	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	1.0	150	L-036
	BL-R4530	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	7.0		
	BL-R2130	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	7.0		
	BL-R3130	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	6.0		
	BL-R4130	GaAsP/GaP/Orange	635	Orange Diffused	25	80	30	150	2.0	2.6	7.0		
5.0x5.0x7.1mm 1.0" Lead Rectangular	BL-R5130N	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	1.0	150	L-037
	BL-R4530N	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	7.0		
	BL-R2130N	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	7.0		
	BL-RX1130N	GaP/GaP/Hi-Eff Green	568		30	80	30	150	2.2	2.6	10.0		
	BL-R3130N	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	6.0		
	BL-R4130N	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	7.0		
3.7x6.3x6.8mm 1.0" Lead Rectangular	BL-R513P	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	2.0	120	L-038
	BL-R453P	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	8.0		
	BL-R213P	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	8.0		
	BL-RX113P	GaP/GaP/Hi-Eff Green	568		30	80	30	150	2.2	2.6	11.0		
	BL-R313P	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	7.0		
	BL-R413P	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	8.0		
3.6x3.6x7.2mm 1.0" Lead Rectangular	BL-R513T	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	1.0	120	L-039
	BL-R453T	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	6.0		
	BL-R213T	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	6.0		
	BL-RX113T	GaP/GaP/Hi-Eff Green	568		30	80	30	150	2.2	2.6	8.0		
	BL-R313T	GaAsP/GaP/Yellow	585	Yellow Diffused	35	80	30	150	2.1	2.6	5.0		
	BL-R413T	GaAsP/GaP/Orange	635	Orange Diffused	45	80	30	150	2.0	2.6	6.0		



# STANDARD LED LAMPS (RECTANGULAR TYPES)

L-033 BL-Rxx32R Series	L-034 BL-Rxx32T Series
L-035 BL-Rxx33 Series	L-036 BL-Rxx30 Series
L-037 BL-Rxx30N Series	L-038 BL-Rxx3P Series
L-039 BL-Rxx3T Series	

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