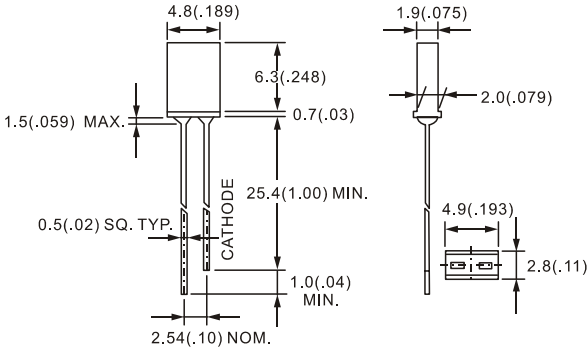
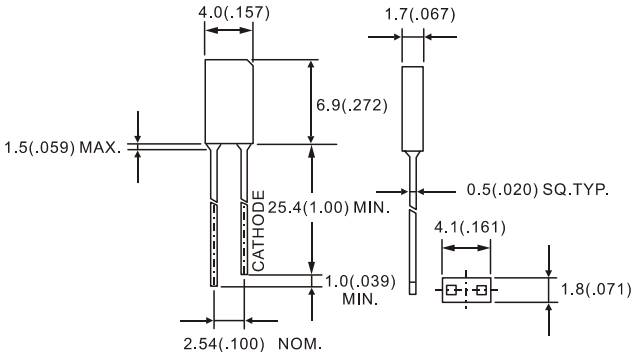
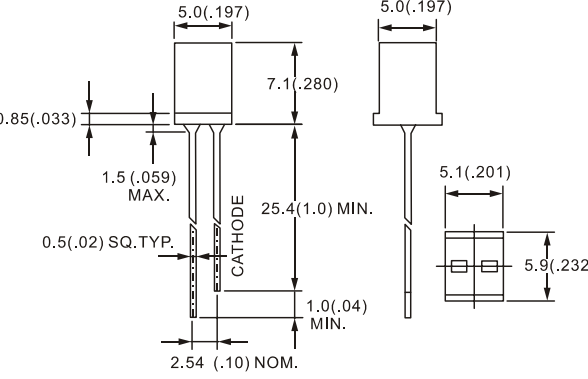
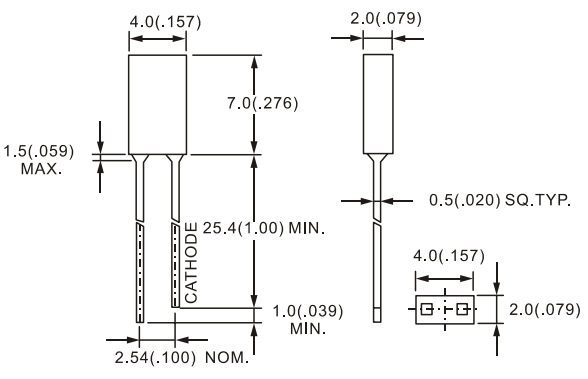
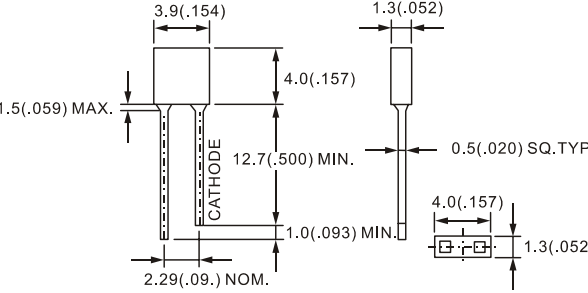
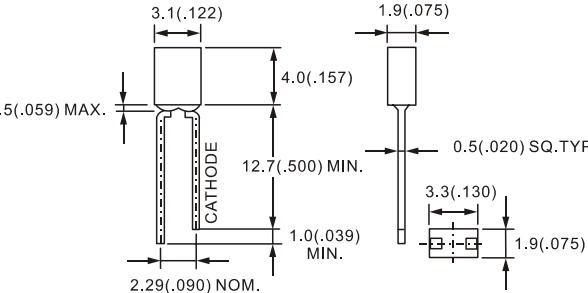
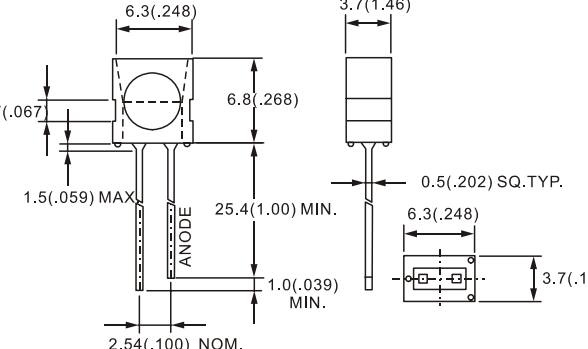


STANDARD LED LAMPS

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)		$\Delta\lambda$ (nm)	Pd (mw)	If (mA)	Peak (mA)	Vf (V)		Iv (mcd)		
									Typ	Max	Typ.		
2.0x5.0x7.5mm 1.0" Lead Rectangular	BL-R2132B	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	5.0	120	D-017
	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		
	BL-R5132B	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	0.8		
	BL-R4532B	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	5.0		
1.7x4.0x6.9mm 1.0" Lead Rectangular	BL-R2141H	GaP/GaP/Green	568	Green Diffused	30	80	30	150	2.2	2.6	4.0	140	D-018
	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		
	BL-R5141H	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	1.0		
	BL-R4541H	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	4.0		
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	D-019
	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		
2.0x4.0x7.0mm 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	D-020
	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		
1.3x4.0x4.0mm 1.0" Lead Rectangular	BL-R5421D	GaP/GaP/Bright Red	700	Red Trans	90	40	15	50	2.2	2.6	6.0	80	D-021
	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		
1.9x3.1x4.0mm 0.5" Lead Rectangular	BL-R5121F	GaP/GaP/Bright Red	700	Red Diffused	90	40	15	50	2.2	2.6	0.6	120	D-022
	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		
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	D-023
	BL-R453P	GaAsP/GaP/Hi-Eff Red	635		45	80	30	150	2.0	2.6	8.0		
	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		

STANDARD LED LAMPS

<p>D-017 BL-Rxx32B Series</p> 	<p>D-018 BL-Rxx41H Series</p> 
<p>D-019 BL-Rxx30 Series</p> 	<p>D-020 BL-Rxx31 Series</p> 
<p>D-021 BL-Rxx21D Series</p> 	<p>D-022 BL-Rxx21F Series</p> 
<p>D-023 BL-Rxx3P Series</p> 	

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