



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.		
7.62x7.62 x4.0mm 3 φ	BL-FF43F1	GaAlAs/GaAlAs/Super Red	660	Water Clear	20	65	30	150	1.9	2.6	400	85	L-013
	BL-FU13F1	AlGaInP/Super Red	645		20	65	30	150	2.0	2.6	300		
	BL-FG33F1	AlGaInP/Super Green	574		22	85	30	150	2.4	2.8	200		
	BL-FK33F1	AlGaInP/Ultra Yellow	592		15	65	30	150	2.0	2.6	300		
	BL-FK43F1	AlGaInP/Ultra Yellow	595		15	75	30	150	2.4	2.8	500		
	BL-FJ13F1	AlGaInP/Ultra Orange	620		17	65	30	150	2.0	2.6	300		
	BL-FJ23F1	AlGaInP/Ultra Orange	620		17	66	30	150	2.2	2.6	450		
7.62x7.62 x4.4mm 3 φ	BL-FF43F2	GaAlAs/GaAlAs/Super Red	660	Water Clear	20	65	30	150	1.9	2.6	450	65	L-014
	BL-FU13F2	AlGaInP/Super Red	645		20	65	30	150	2.0	2.6	350		
	BL-FG33F2	AlGaInP/Super Green	574		22	85	30	150	2.4	2.8	250		
	BL-FK33F2	AlGaInP/Ultra Yellow	592		15	65	30	150	2.0	2.6	350		
	BL-FK43F2	AlGaInP/Ultra Yellow	595		15	75	30	150	2.4	2.8	550		
	BL-FJ13F2	AlGaInP/Ultra Orange	620		17	65	30	150	2.0	2.6	350		
	BL-FJ23F2	AlGaInP/Ultra Orange	620		17	66	30	150	2.2	2.6	500		

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-013	BL-Fxx3F1 Series	L-014	BL-Fxx3F2 Series
CHAMFER 1.25x1.25 (.049x.049) R0.69 ± 0.20 (.027 ± .008) 7.62 ± 0.50 (.300 ± .020) Ø3.00 ± 0.20 (Ø.118 ± .008) 7.62 ± 0.50 (.300 ± .020) 1.50(.059) 2.50 ± 0.50 (.098 ± .020) 5.0° TYP. 0.40 ± 0.20 TYP. (.016 ± .008) 5.08 ± 0.30 (.200 ± .012) 4.40 ± 0.20 (.173 ± .008) 7.00 ± 0.20 (.276 ± .008) 0.50(.020) TYP. 1.55 ± 0.20 TYP. (.061 ± .008) 0.76 ± 0.10 TYP. (.030 ± .004) 5.08 ± 0.20 (.200 ± .008)		CHAMFER 1.25x1.25 (.049x.049) R0.69 ± 0.20 (.027 ± .008) 7.62 ± 0.50 (.300 ± .020) Ø3.00 ± 0.20 (Ø.118 ± .008) 7.62 ± 0.50 (.300 ± .020) 1.90(.075) 2.50 ± 0.50 (.098 ± .020) 5.0° TYP. 0.40 ± 0.20 TYP. (.016 ± .008) 5.08 ± 0.30 (.200 ± .012) 4.40 ± 0.20 (.173 ± .008) 7.00 ± 0.20 (.276 ± .008) 0.50(.020) TYP. 1.55 ± 0.20 TYP. (.061 ± .008) 0.76 ± 0.10 TYP. (.030 ± .004) 5.08 ± 0.20 (.200 ± .008)	

Notes : 1.All Dimensions are millimeters (inches).
2.Tolerance is ± 0.25mm (.010").