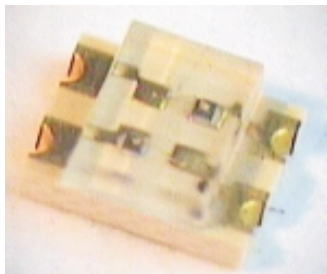




BI-COLOR CHIP LED LAMPS



BL-HXXXXX3F (1210) Series

Technical drawing showing dimensions and electrical symbols for the BL-HXXXXX3F (1210) Series LED chip. Dimensions are in millimeters (mm) and inches (in). The drawing includes a top view, a side view, and a bottom view. The top view shows a square chip with a width of 3.2(1.26)±0.2 mm and a height of 2.7(1.06)±0.2 mm. The side view shows a height of 1.1(0.43)±0.2 mm and a width of 2.0(0.79) mm. The bottom view shows a width of 2.0(0.79) mm and a height of 0.9(0.35) mm. The drawing also includes electrical symbols for the BL-HXXXXX3F and BL-HXXXXX3F-A series.

NOTE:

- All dimensions are in millimeters(inches).
- Tolerance is ± 0.10(.004") unless otherwise specified.
- Specifications are subject to change without notice.
- Condition for IFp is pulse of 1/10 duty and 0.1msec width.

Absolute Maximum Ratings(Ta=25°C)

	UNIT	SPEC.
IF	mA	30
IFp	mA	100
V _R	V	5
IR	uA	100
Top	°C	-25~+80
Tstg	°C	-30~+85

Part No.	Chip				Lens Appearance	Electro-optical Data (At 20mA)				Viewing Angle 2θ 1/2 (deg)±5
	Material	Emitted Color	λ P (nm)	Δ λ (nm)		Vf(V)		Iv(mcd)		
						Typ.	Max.	Min.	Typ.	
BL-HE1G033F	GaAsP/GaP	Hi-Eff Red	640	45	Water Clear	2.0	2.6	4.0	12.0	120
	GaP/GaP	Green	568	30		2.2	2.6	4.5	14.0	
BL-HY0G033F	GaAsP/GaP	Yellow	585	35		2.1	2.6	3.0	9.0	
	GaP/GaP	Green	568	30		2.2	2.6	4.5	14.0	
BL-HD0X133F	GaAlAs/GaAs	Super Red	660	20		1.8	2.6	9.0	27.0	
	GaP/GaP	Hi-Eff Green	568	30		2.0	2.6	6.5	20.0	
BL-HE1G033F-A	GaAsP/GaP	Hi-Eff Red	640	45		2.0	2.6	4.0	12.0	
	GaP/GaP	Green	568	30		2.2	2.6	4.5	14.0	
BL-HY0G033F-A	GaAsP/GaP	Yellow	585	35		2.1	2.6	3.0	9.0	
	GaP/GaP	Green	568	30		2.2	2.6	4.5	14.0	
BL-HD0X133F-A	GaAlAs/GaAs	Super Red	660	20		1.8	2.6	9.0	27.0	
	GaP/GaP	Hi-Eff Red	568	30		2.0	2.6	6.5	20.0	