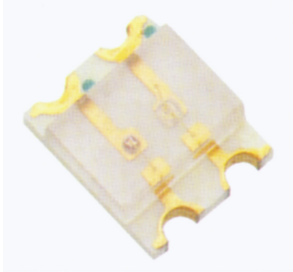
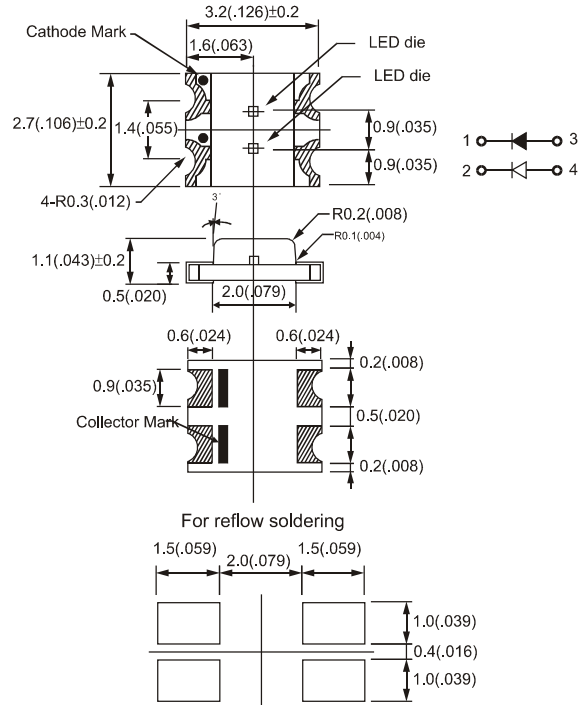




SURFACE MOUNT DUAL COLOR LED LAMPS



BL-Hxxxxx3B (1210) Series



Absolute Maximum Ratings (Ta=25°C)

	UNIT	SPEC.
IF	mA	30
IFp	mA	100
VR	V	5
Topr	°C	-25 ~ +80
Tstg	°C	-30 ~ +85

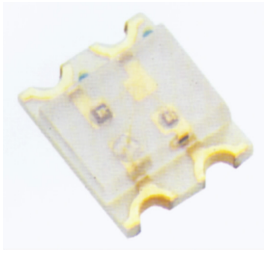
NOTE:

- All dimension are in millimeters(inches).
- Tolerance is ±0.10(.004") unless otherwise specified.
- Specifications are subject to change without notices.

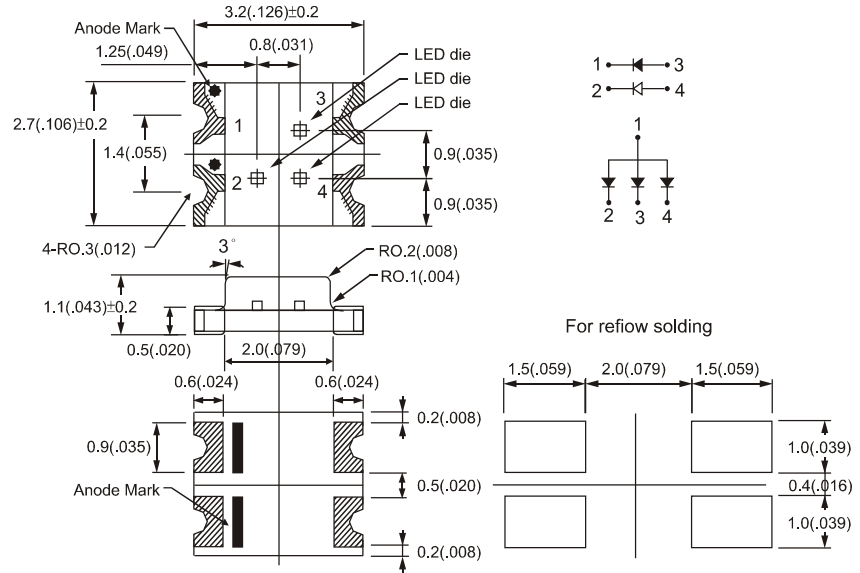
Part No.	Chip				Lens Appearance	Electro-optical Data (At 20mA)				Viewing Angle 2 θ 1/2 (deg)
	Material	Emitted Color	λp (nm)	λd (nm)		Vf (V)		Iv (mcd)		
						Typ.	Max.	Min.	Typ.	
BL-HD1X133B	GaAlAs/GaAs	Super Red	660	643	Water Clear	1.8	2.6	12.3	25.0	120°
	GaP/GaP	Hi-Eff Green	568	570		2.2	2.6	5.5	12.0	
BL-HE1G033B	GaAsP/GaP	Hi-Eff Red	640	628		2.0	2.6	5.5	12.0	
	GaP/GaP	Green	568	571		2.2	2.6	2.4	10.0	
BL-HE1Y033B	GaAsP/GaP	Hi-Eff Red	640	628		2.0	2.6	5.5	12.0	
	GaAsP/GaP	Yellow	583	585		2.1	2.6	2.4	10.0	
BL-HE1W033B	GaAsP/GaP	Hi-Eff Red	640	628		2.0	2.6	5.5	12.0	
	GaP/GaP	Pure Green	557	563		2.2	2.6	0.5	3.0	
BL-HE1X133B	GaAsP/GaP	Hi-Eff Red	640	628		2.1	2.6	5.5	12.0	
	GaP/GaP	Hi-Eff Green	568	570		3.5	2.6	5.5	12.0	
BL-HG0Y033B	GaP/GaP	Green	568	571		2.2	2.6	2.4	10.0	
	GaAsP/GaP	Yellow	583	585		2.1	2.6	2.4	10.0	



SURFACE MOUNT DUAL COLOR LED LAMPS



BL-Hxxxxxxx3F (1210) Series



Absolute Maximum Ratings
(Ta=25°C)

	UNIT	SPEC.
IF	mA	30
IFp	mA	100
VR	V	5
Topr	°C	-25 ~ +80
Tstg	°C	-30 ~ +85

NOTE:
 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.10(.004") unless otherwise specified.
 3. Specifications are subject to change without notice.

Part No.	Chip				Lens Appearance	Electro-optical Data (At 20mA)				Viewing Angle 2θ 1/2 (deg)
	Material	Emitted Color	λp (nm)	λd (nm)		Vf (V)		Iv (mcd)		
						Typ.	Max.	Min.	Typ.	
BL-HD0G033F	GaAlAs/GaAs	Super Red	660	643	Water Clear	1.8	2.6	8.2	20.0	120°
	GaP/GaP	Green	568	571		2.2	2.6	2.4	10.0	
BL-HS1X133F	GaAlAs/GaAs	Super Red	660	643		1.7	2.6	5.5	15.0	
	GaP/GaP	Hi-Eff Green	568	570		2.2	2.6	5.5	12.0	
BL-HF0G333F	GaAlAs/GaAlAs	Super Red	660	643		2.1	2.6	18.5	35.0	
	AlGaInP	Yellow Green	573	571		2.2	2.6	28.0	45.0	
BL-HD1G4B433F	GaAlAs/GaAs	Super Red	660	643		1.8	2.6	12.3	25.0	
	InGaN	Bluish Green	505	505		3.5	4.0	63.0	120.0	
	AlInGaN	Super Blue	470	470		3.5	4.0	28.0	40.0	
BL-HD1X1B433F	GaAlAs/GaAs	Super Red	660	643		1.8	2.6	12.3	25.0	
	GaP/GaP	Hi-Eff Green	568	570		2.2	2.6	5.5	12.0	
	AlInGaN	Super Blue	470	470		3.5	4.0	28.0	40.0	