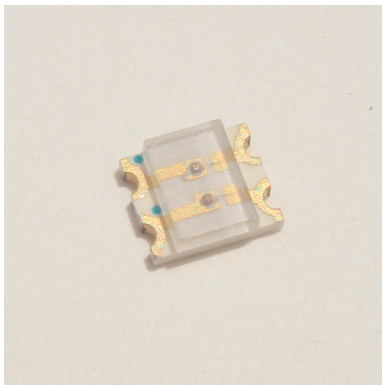


SURFACE MOUNT DUAL COLOR LED LAMPS



BL-Hxxxxx3B (1210) Series

For reflow soldering

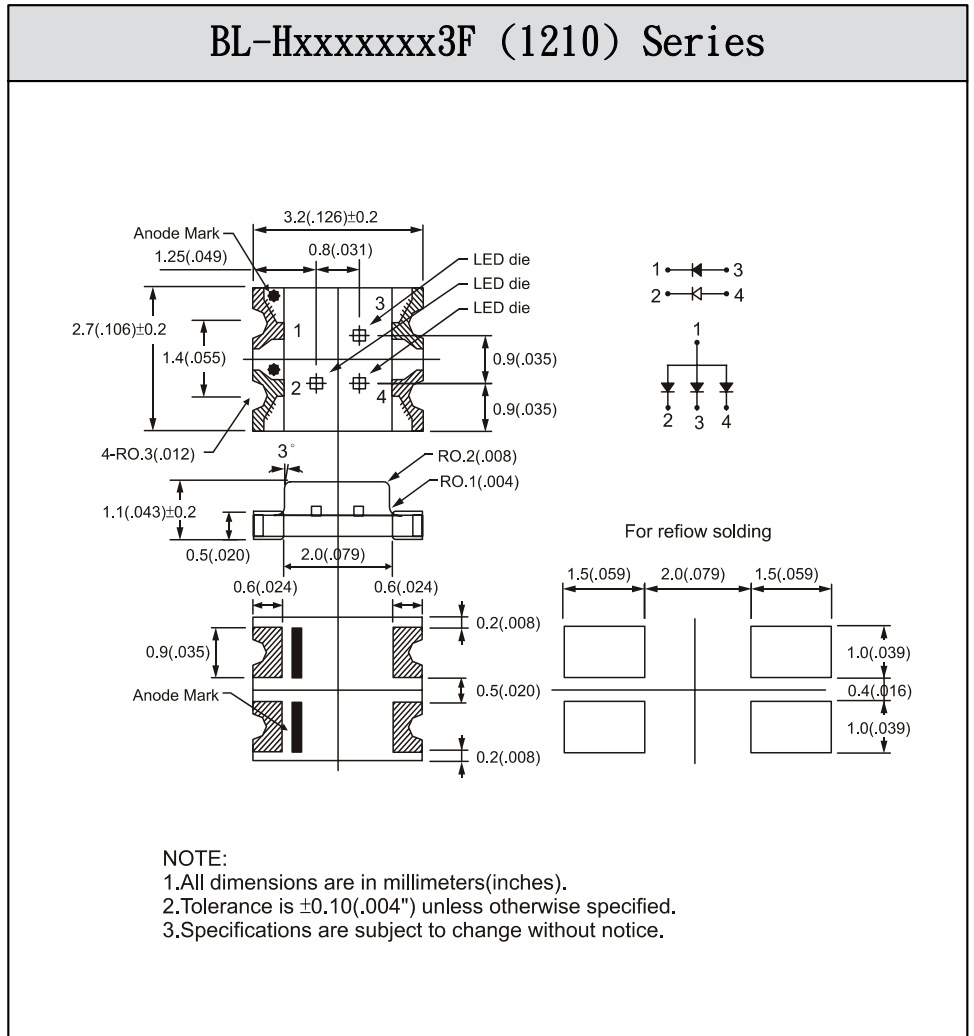
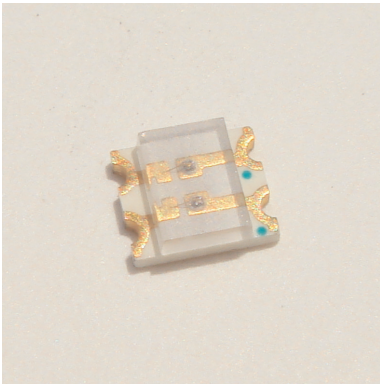
NOTE:
 1. All dimension are in millimeters(inches).
 2. Tolerance is $\pm 0.10(.004)$ unless otherwise specified.
 3. Specifications are subject to change without notices.

■ Absolute Maximun Ratings
($T_a=25^\circ\text{C}$)

	UNIT	SPEC.
IF	mA	30
IFp	mA	100
VR	V	5
Topr	$^\circ\text{C}$	-25~+80
Tstg	$^\circ\text{C}$	-30~+85

Part No.	Chip				Lens Appearance	Electro-optical Data (At 20mA)				Viewing Angle 2θ 1/2 (deg)
	Material	Emitted Color	λ_p (nm)	λ_d (nm)		Vf (V)		Iv (mcd)		
						Typ.	Max.	Min.	Typ.	
BL-HD1X133B	GaAlAs/GaAs	Super Red	660	643	1.8	2.6	12.3	25.0	Water Clear 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-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



■ 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

Part No.	Chip				Lens Appearance	Electro-optical Data (At 20mA)				Viewing Angle 2 θ 1/2 (deg)
	Material	Emitted Color	λ p (nm)	λ d (nm)		Vf (V)		Iv (mcd)		
						Typ.	Max.	Min.	Typ.	
BL-HD0G033F	GaAlAs/GaAs	Super Red	660	643	1.8	2.6	8.2	20.0	120°	
	GaP/GaP	Green	568	571	2.2	2.6	2.4	10.0		
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		
	A1InGaN	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		
	A1InGaN	Super Blue	470	470	3.5	4.0	28.0	40.0		