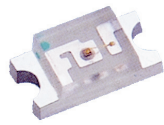
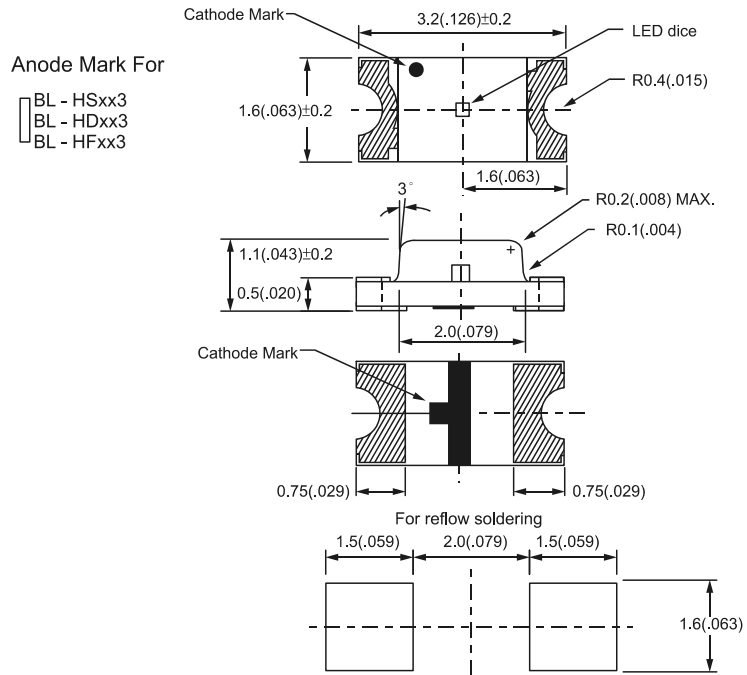


# SURFACE MOUNT CHIP LED LAMPS



## BL-Hxxx3 (1206) Series



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

**Absolute Maximum Ratings**  
 (Ta=25°C)

	UNIT	SPEC.
IF	mA	20
IFp	mA	100
VR	V	5
Topr	°C	-40~+85
Tstg	°C	-40~+85

Part No.	Chip				Lens Appearance	Electro-optical Data (At 20mA)				Viewing Angle 2θ1/2 (deg)
	Material	Emitted Color	λp (nm)	λd (nm)		Vf (V)		Iv (mcd)		
						Typ.	Max.	Min.	Typ.	
BL-HS133	GaAlAs/GaAs	Super Red	660	643	Water Clear	1.7	2.6	5.5	15.0	120°
BL-HUB33	AlGaInP	Super Red	645	632		2.1	2.6	28.0	50.0	
BL-HJB33	AlGaInP	Super Orange Red	620	615		2.0	2.6	28.0	50.0	
BL-HJE33	AlGaInP	Super Orange Red	630	625		2.0	2.6	63.0	100.0	
BL-HG033	GaP/GaP	Yellow Green	568	571		2.1	2.6	3.7	12.0	
BL-HX133	GaP/GaP	Hi-Eff Green	568	570		2.2	2.6	5.5	12.0	
BL-HGE33	AlGaInP	Super Yellow Green	570	570		2.0	2.6	18.5	35.0	
BL-HG433	InGaN	Bluish Green	505	505		3.5	4.0	63.0	120.0	
BL-HG633	InGaN	Green	525	525		3.5	4.0	63.0	160.0	
BL-HY033	GaAsP/GaP	Yellow	583	585		2.1	2.6	2.4	6.0	
BL-HKB33	AlGaInP	Super Yellow	590	587		2.1	2.6	28.0	45.0	
BL-HKC33	AlGaInP	Super Yellow	590	586		2.1	2.6	63	120.0	
BL-HA133	GaAsP/GaP	Amber	610	610		2.2	2.6	2.4	5.0	
BL-HJF33	AlGaInP	Super Amber	610	605		2.0	2.6	28.0	50.0	

Part No.	Chip				Lens Appearance	Electro-optical Data (At 5mA)				Viewing Angle 2θ1/2 (deg)
	Material	Emitted Color	λp (nm)	λd (nm)		Vf (V)		Iv (mcd)		
						Typ.	Max.	Min.	Typ.	
BL-HB333	AllnGaN	Super Blue	460	465-470	Water Clear	2.8	3.2	8.2	15.0	120°
BL-HB533	AllnGaN	Super Blue	470	470-475		2.8	3.2	8.2	20.0	