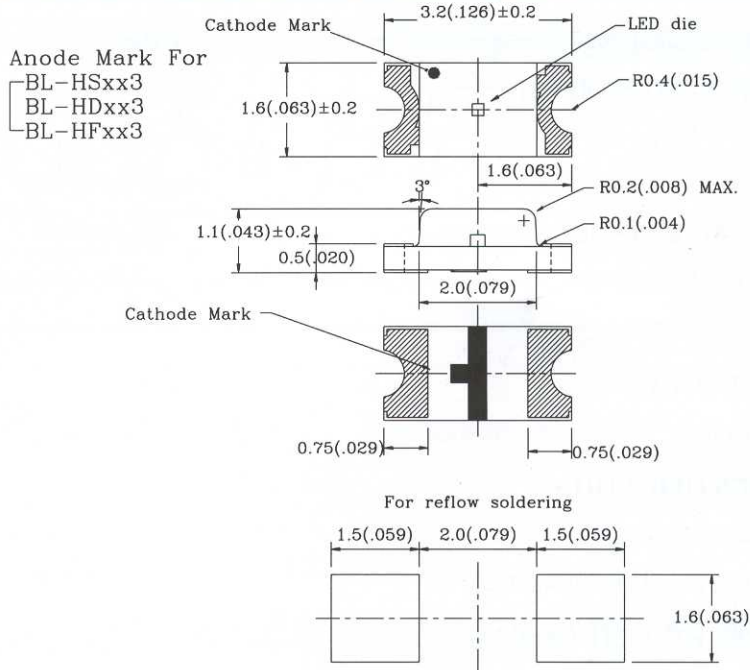


# SURFACE MOUNT CHIP LED LAMPS

## 1206 Flat Top BL-Hxxx3 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	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 2θ 1/2 (deg)
	Material	Emitted Color	λ p (nm)	λ d (nm)		Vf(V)		Iv(mcd)		
						Typ.	Max.	Min.	Typ.	
BL-HE133	GaAsP/GaP	Hi-Eff Red	640	628	Water Clear	2.0	2.6	2.4	8.0	120
BL-HS133	GaAlAs/GaAs	Super Red	660	643		1.7	2.6	5.5	15.0	
BL-HD033	GaAlAs/GaAs	Super Red	660	643		1.8	2.6	8.2	25.0	
BL-HF033	GaAlAs	Super Red	660	643		2.1	2.6	18.5	30.0	
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-HJD33	AlGaInP	Super Orange Red	630	625		2.1	2.6	28.0	50.0	
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-HW133	GaP/GaP	Pure Green	557	563		2.2	2.6	1.6	3.0	
BL-HGD33	AlGaInP	Super Yellow Green	570	570		2.0	2.6	12.3	20.0	
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-HKD33	AlGaInP	Super Yellow	595	594		2.1	2.6	28.0	45.0	
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	