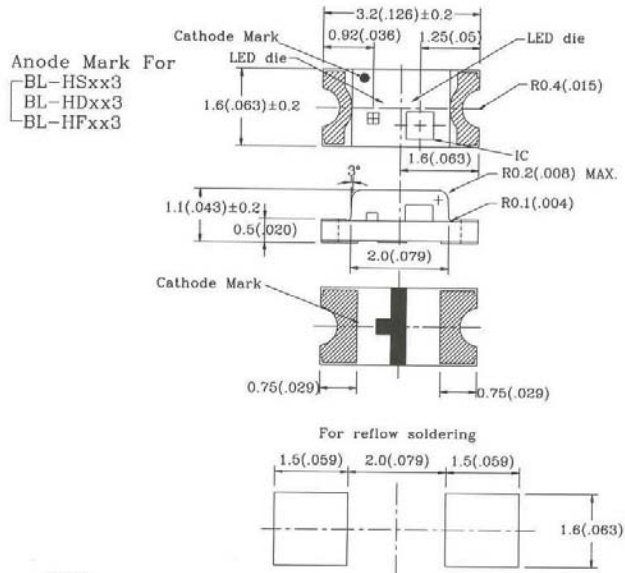


# SURFACE MOUNT BLINKING CHIP LED LAMPS



## 1206 Blinking BB-Hxxx3-C 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 ( $T_a = 25^\circ\text{C}$ )

	UNIT	SPEC.
IF	mA	20
IFp	mA	100
V <sub>a</sub>	V	5.0
T <sub>opr</sub>	°C	-25~+80
T <sub>stg</sub>	°C	-20~+85

Part No.	Chip			Lens Appearance	Forward Current		Pulse Rate (Hz) VDD=5V		I <sub>v</sub> (mcd)		Viewing Angle 2θ 1/2 (deg)	
	Material	Emitted Color	λ <sub>p</sub> (nm)		Typ.	Max.	Min.	Typ.	Max.	Min.		Typ.
BB-HH033-C	GaP/GaP	Bright Red	700	Water Clear	20	—	2.0	2.4	3.0	2.4	6.0	140
BB-HG033-C	GaP/GaP	Yellow Green	568		20	—	2.0	2.4	3.0	8.2	25.0	
BB-HX133-C	GaP/GaP	Hi-Eff Green	568		20	—	2.2	2.4	3.0	5.5	12.0	
BB-HW133-C	GaP/GaP	Pure Green	557		20	—	2.0	2.4	3.0	1.6	3.0	
BB-HY033-C	GaAsP/GaP	Yellow	583		20	—	2.0	2.4	3.0	2.4	6.0	
BB-HE133-C	GaAsP/GaP	Hi-Eff Red	640		20	—	2.0	2.4	3.0	2.4	8.0	
BB-HD133-C	GaAlAs	Super Red	660		20	—	2.0	2.4	3.0	8.2	25.0	
BB-HF033-C	GaAlAs	Ultra Red	660		20	—	2.0	2.4	3.0	18.5	30.0	
BB-HJ033-C	AlGaInP	Super Orange	620		20	—	2.0	2.4	3.0	28.0	50.0	
BB-HK033-C	AlGaInP	Super Yellow	590		20	—	2.0	2.4	3.0	28.0	40.0	
BB-HJ333-C	AlGaInP	Soft Orange	630		20	—	2.0	2.4	3.0	42.0	70.0	
BB-HJF33-C	AlGaInP	Soft Orange	610		20	—	2.0	2.4	3.0	28.0	50.0	
BB-HUB33-C	AlGaInP	Super Red	645		20	—	2.0	2.4	3.0	28.0	50.0	