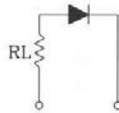
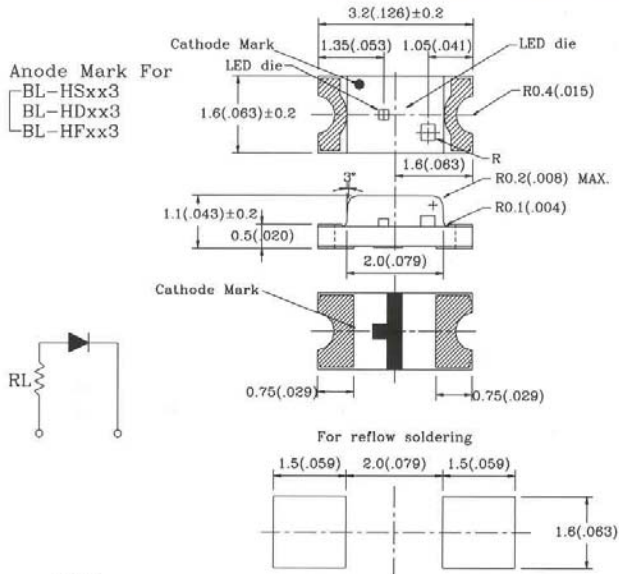


# SURFACE MOUNT RESISTOR CHIP LED LAMPS

## 1206 Resistor Built-in BR-Hxxx3-xx Series



**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.

Absolute Maximum Ratings (Ta=25°C)

	UNIT	SPEC.
IF	mA	12
IFp	mA	100
Topr	°C	-25~+80
Tstg	°C	-20~+85

Part No.	Chip			Lens Appearance	Electro-optical Data						Viewing Angle 2θ 1/2 (deg)
	Material	Emitted Color	λp (nm)		Operating Voltage		Forward Current		Iv(mcd)		
					Typ.	Max.	Typ.	Max.	Min.	Typ.	
BR-HG033-05V	GaP/GaP	Yellow Green	568	Water Clear	—	5	7	12	5.5	15.0	140
BR-HY033-05V	GaAsP/GaP	Yellow	583		—	5	7	12	3.7	12.0	
BR-HE133-05V	GaAsP/GaP	Hi-Eff Red	640		—	5	7	12	5.5	15.0	
BR-HD033-05V	GaAlAs/GaAs	Super Red	660		—	5	7	12	12.3	30.0	
BR-HUB33-05V	AlGaInP	Super Red	645		—	5	7	12	12.3	25.0	
BR-HUB33-09V	AlGaInP	Super Red	645		—	9	7	12	12.3	25.0	
BR-HG033-12V	GaP/GaP	Yellow Green	568		—	12	7	12	5.5	15.0	
BR-HY033-12V	GaAsP/GaP	Yellow	583		—	12	7	12	3.7	12.0	
BR-HE033-12V	GaAsP/GaP	Hi-Eff Red	640		—	12	7	12	5.5	15.0	
BR-HD033-12V	GaAlAs/GaAs	Super Red	660		—	12	7	12	12.3	30.0	
BR-HG033-15V	GaP/GaP	Yellow Green	568		—	15	7	12	5.5	15.0	
BR-HY033-15V	GaAsP/GaP	Yellow	583		—	15	7	12	3.7	12.0	
BR-HE133-15V	GaAsP/GaP	Hi-Eff Red	640		—	15	7	12	5.5	15.0	