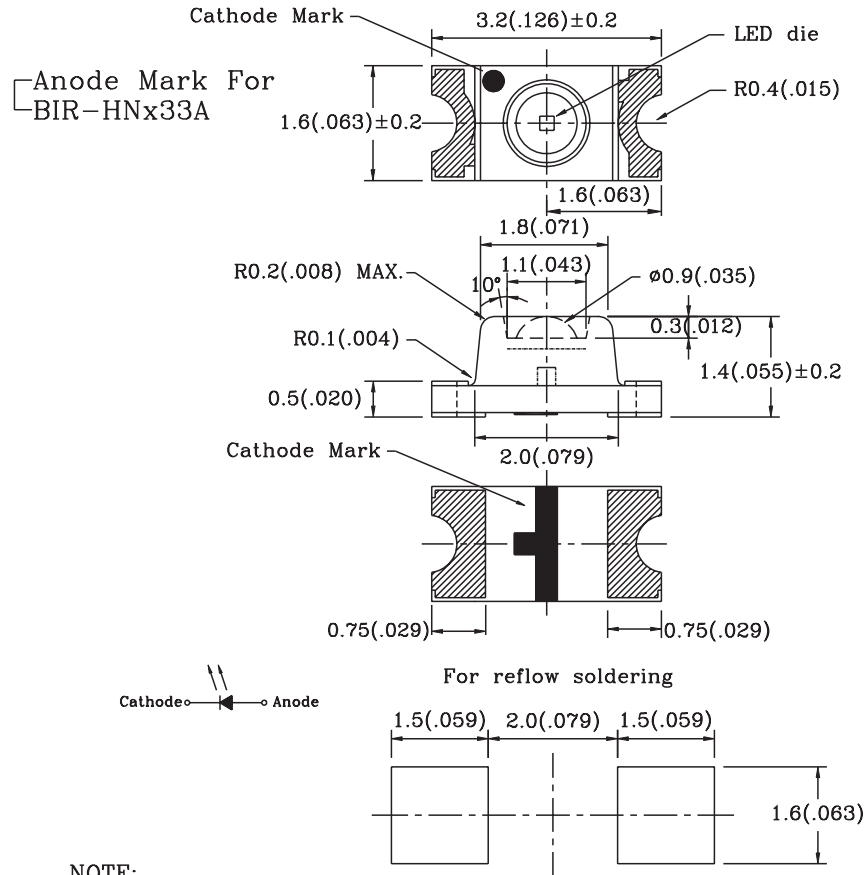




# Surface Mount Infrared Emitting Diodes



## 1206 BIR-Hxx33A 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	30
IFP	A	1.0
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	λp (nm)	Δλ (nm)		V <sub>f</sub> (V)		I <sub>r</sub> (uA)	Radiant Power P <sub>o</sub> (mw/sr)			T <sub>r</sub> (ns)	T <sub>f</sub> (ns)
					Typ.	Max.		Min.	Typ.			
BIR-HM133A	GaAlAs	940	50	Water Clear	1.2	1.7	50	1.00	4.00	500	200	70
BIR-HN033A	GaAlAs	880	50		1.4	2.0	50	0.71	1.20	500	200	
BIR-HO033A	GaAlAs	850	50		1.4	2.0	50	1.98	4.00	500	200	
BIR-HO133A	GaAlAs	850	50		1.4	2.0	50	1.41	3.00	500	200	