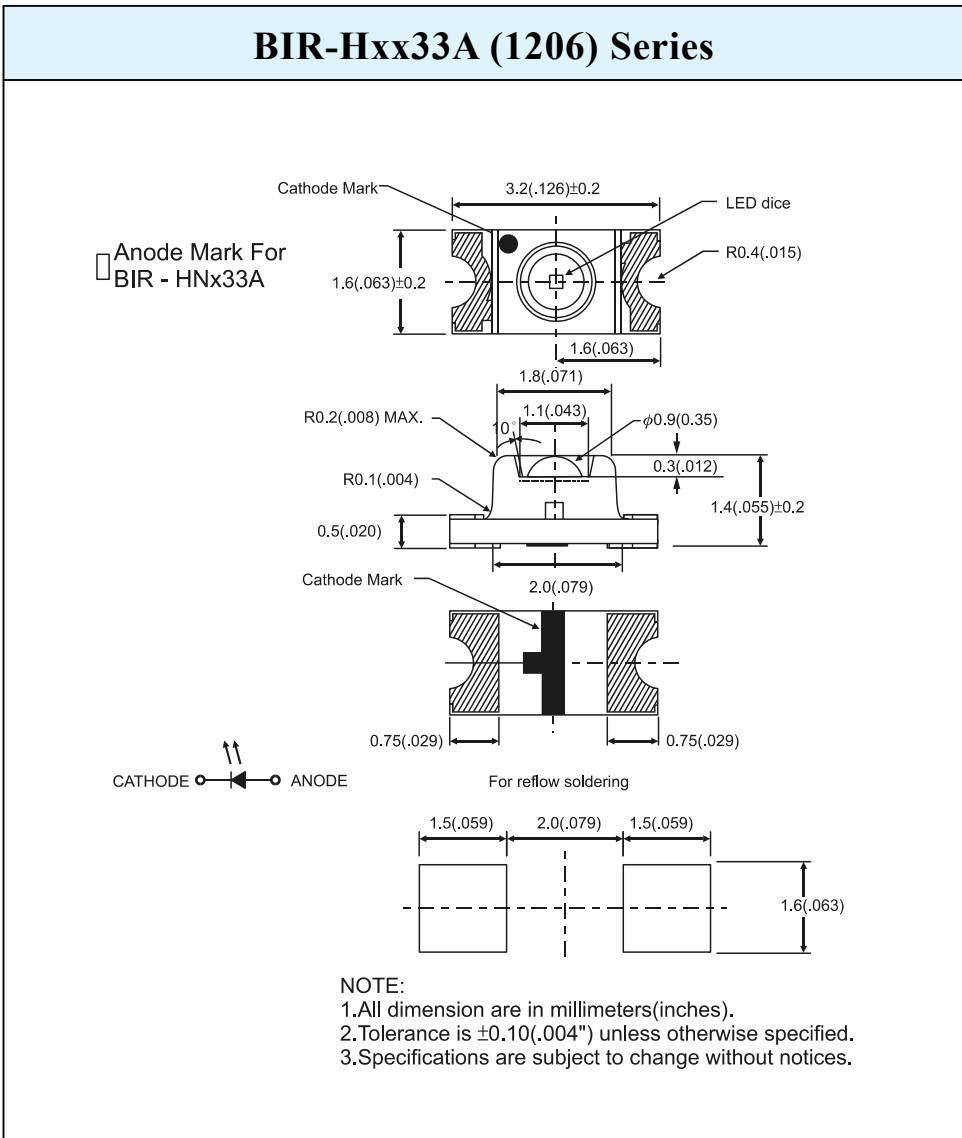
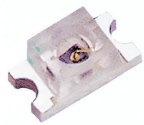


SURFACE MOUNT INFRARED EMITTING DIODES



Absolute Maximum Ratings
 (Ta = 25°C)

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

Part No.	Chip			Lens Appearance	Electro-optical Data (At 20mA)					Ifp = 20mA PW = 10 μs DC = 1%		Viewing Angle 2 θ 1/2 (deg)
	Material	λp (nm)	Δλ (nm)		Vf (V)		Ir (μA)	Radiant Power Po (mw/sr)		Tr (ns)	Tf (ns)	
					Typ.	Max.		Min.	Typ.			
BIR-HM133A	GaAlAs	940	50	Water Clear	1.2	1.7	50	1.00	4.00	500	200	60°
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	