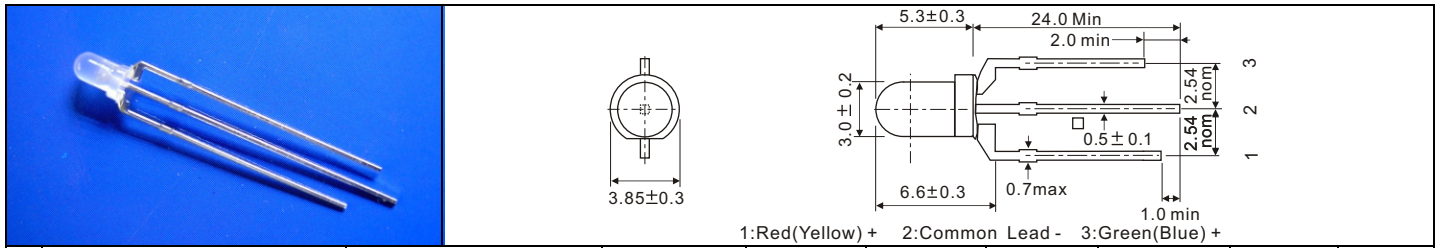


Dual & Triple Color LEDs

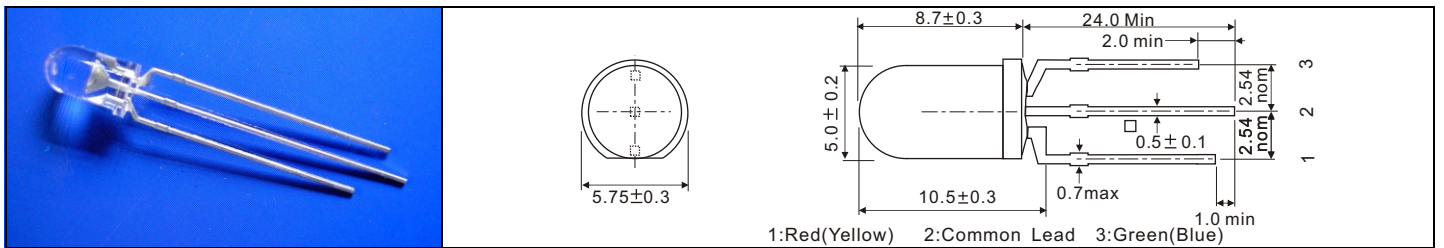
IF=20mA Ta=25°C

Device No	Color		Wavelength (nm)		VF Typical (V)	Brightness (mcd)		View Angle 2θ1/2
	Emitter	Lens	λp	λd		IV1	IV2	



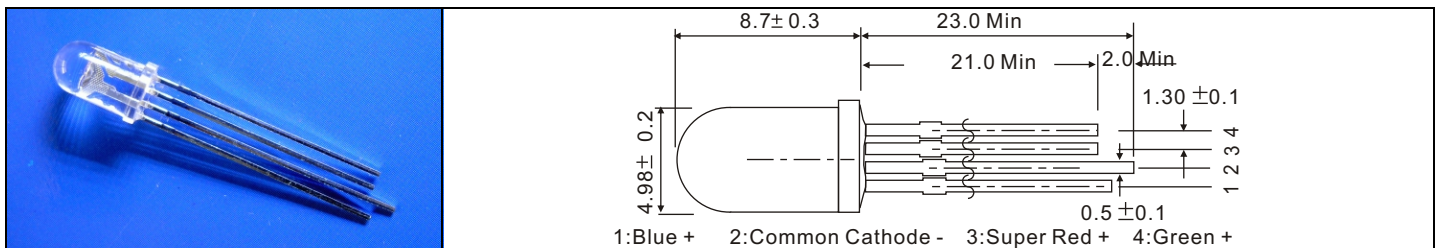
1:Red(Yellow) + 2:Common Lead - 3:Green(Blue) +

HB3b-39OGC	hi-eff red	white	625	618	2.05	50.0	50.0	40
	yellow green	diffused	570	567	2.15	50.0	50.0	
HB3b-39YGC	yellow	white	589	585	2.10	40.0	40.0	40
	yellow green	diffused	570	567	2.15	50.0	50.0	
HB3b-495AOR3BGC	super fresh red	water	635	626	2.00	500	1000	20
	super yellow green	clear	575	572	2.20	300	600	
HB3b-495AOR8ABCC	super fresh red	water	635	626	2.00	500	1000	30
	super blue	clear	468	470	3.50	600	600	



1:Red(Yellow) 2:Common Lead 3:Green(Blue)

HB5-30OGC	hi-eff red	white	625	618	2.05	60.0	60.0	40
	yellow green	diffused	570	567	2.15	60.0	60.0	
HB5-30YGC	yellow	white	589	585	2.10	40.0	40.0	40
	yellow green	diffused	570	567	2.15	60.0	60.0	
HB5-405AOR3BGC	super fresh red	water	635	626	2.00	750	1500	20
	super yellow green	clear	575	572	2.20	400	800	
HB5-405AOR8ABCC	super fresh red	water	635	626	2.00	750	1500	30
	super blue	clear	468	470	3.50	1400	1400	
HB5-4063A	super red	water	660	643	1.80	300	300	15
	yellow green	clear	570	567	2.25	250	250	



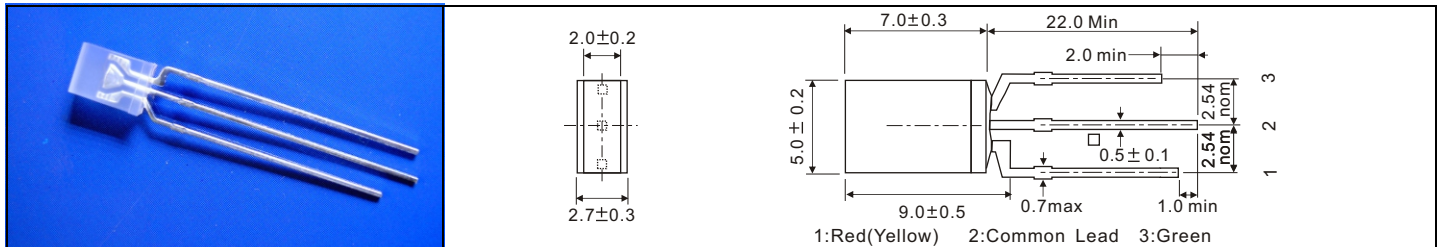
1:Blue + 2:Common Cathode - 3:Super Red + 4:Green +

HB5-40AOR AGC ABC C	super fresh red	water clear	635	626	2.00	1500	3000	12
	super pure green		523	525	3.50	3500	6000	
	super blue		468	470	3.50	2000	2500	

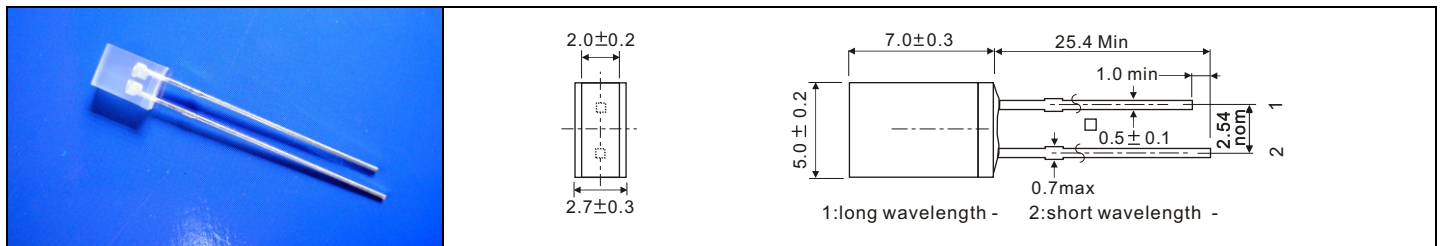
Dual Color LEDs

IF=20mA Ta=25°C

Device No	Color		Wavelength (nm)		VF Typical (V)	Brightness (mcd)		View Angle 2θ1/2
	Emitter	Lens	λp	λd		IV1	IV2	



2	HR2-30OGC	hi-eff red	white	625	618	2.05	10.0	10.0	100
		yellow green	diffused	570	567	2.15	11.0	11.0	
5	HR2-30YGC	yellow	white	589	585	2.10	8.0	8.0	100
		yellow green	diffused	570	567	2.15	10.0	10.0	
5	HR2-3063A	super fresh red	white	660	643	1.80	15.0	15.0	100
		super blue	diffused	570	567	2.15	11.0	11.0	



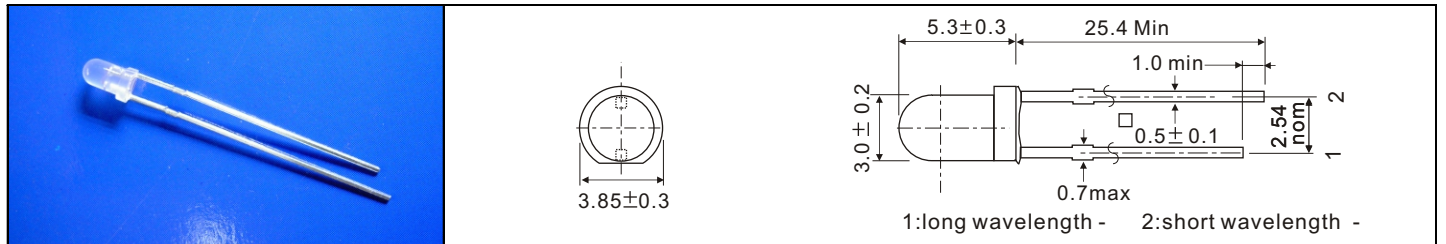
2	HR2-31OG	hi-eff red	white	625	618	2.05	5.0	5.0	125
		yellow green	diffused	570	567	2.15	5.0	5.0	
5	HR2-31YG	yellow	white	589	585	2.10	4.0	4.0	125
		yellow green	diffused	570	567	2.15	4.0	4.0	

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.

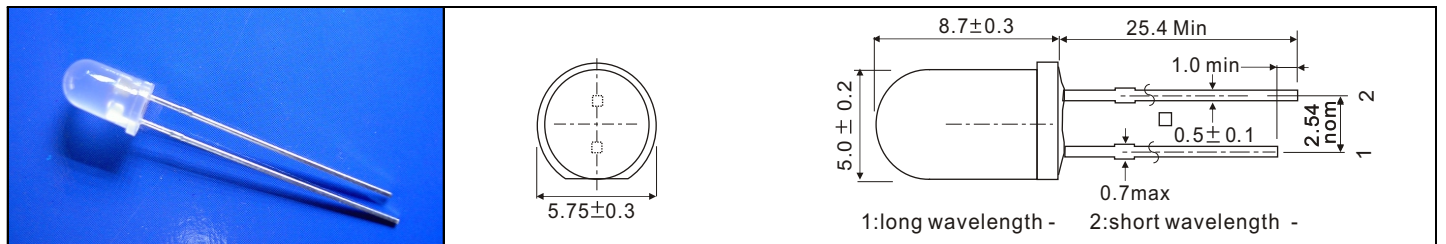
Dual Color LEDs

IF=20mA Ta=25°C

Device No	Color		Wavelength (nm)		VF Typical (V)	Brightness (mcd)		View Angle 2θ/2
	Emitter	Lens	λp	λd		IV1	IV2	



φ 3	HB3b-31OG	hi-eff red	white	625	618	2.05	25.0	25.0	45
		yellow green	diffused	570	567	2.15	30.0	30.0	
	HB3b-31YG	yellow	white	589	585	2.10	20.0	20.0	45
		yellow green	diffused	570	567	2.15	30.0	30.0	
	HB3b-315AOR3BG	super fresh red	white	635	626	2.00	200.0	200.0	45
		super yellow green	diffused	575	572	2.20	100.0	100.0	
	HB3b-415AOR8ABC	super fresh red	water	635	626	2.00	200.0	200.0	45
		super blue	clear	468	470	3.50	300.0	300.0	



φ 5	HB5-31OG	hi-eff red	white	625	618	2.05	45.0	45.0	45
		yellow green	diffused	570	567	2.15	50.0	50.0	
	HB5-31YG	yellow	white	589	585	2.10	35.0	35.0	45
		yellow green	diffused	570	567	2.15	50.0	50.0	
	HB5-3163	super red	white	660	643	1.80	80.0	80.0	45
		yellow green	diffused	570	567	2.25	35.0	35.0	
	HB5-1633	yellow green	colored	570	567	2.15	12.0	12.0	50
		yellow green	diffused	570	567	2.15	12.0	12.0	
	HB5-1655R	hi-eff red	colored	625	618	2.05	45.0	45.0	45
		hi-eff red	diffused	625	618	2.05	45.0	45.0	

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.