


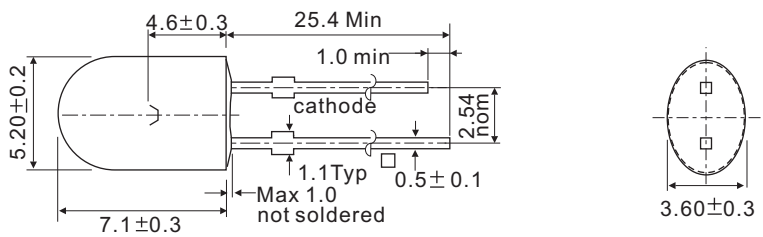


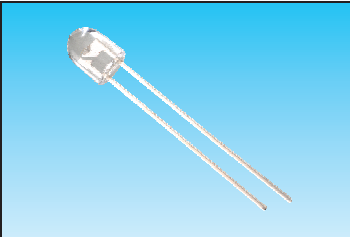
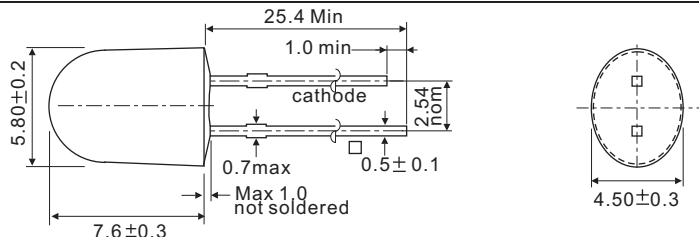
Extra Bright LEDs

Oval Type

IF=20mA Ta=25°C

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

oval φ									
	HB4RH-633EBA-C/P	cyan	Colored diffused	502	505	3.50	550	1100	110/50
	HB4RH-633EAGCA-C/P	pure green		523	525	3.50	880	1750	
	HB4RH-633EAGD-C/P	pure green		523	525	3.50	1000	2000	
	HB4RH-635AOR-C/P	super fresh red		635	625	2.00	300	600	
	HB4RH-636UOR-C/P	super fresh red		635	625	2.10	450	900	
	HB4RH-636WOR-C/P	super fresh red		635	625	2.10	500	1000	
	HB4RH-638ABD-C/P	blue		468	470	3.50	250	450	

oval φ									
	HB5RH-433CG	super yellow green	Water clear	570	567	2.15	175	600	70/25
	HB5RH-433EBA	cyan		502	505	3.50	4500	5000	
	HB5RH-433EAGCA	pure green		523	525	3.50	4000	4000	
	HB5RH-433EAGD	pure green		523	525	3.50	5000	6000	
	HB5RH-434FY	super yellow		592	590	2.00	1500	3800	65/25
	HB5RH-434SY	super yellow		592	590	2.25	2500	5000	
	HB5RH-434UY	super yellow		592	590	2.10	2600	5100	
	HB5RH-434WY	super yellow		592	590	2.10	2800	5500	70/25
	HB5RH-434HY	super yellow		592	590	2.10	3000	6000	
	HB5RH-435FO	super orange		620	615	2.00	1800	3800	
	HB5RH-435AOR	super fresh red		635	625	2.00	1300	3300	65/25
	HB5RH-435SOR	super fresh red		638	629	2.25	3500	4300	
	HB5RH-436ARA	super deep red		660	645	1.86	1400	2700	
	HB5RH-436UOR	super fresh red		635	625	2.10	2500	5000	70/25
	HB5RH-436WOR	super fresh red		635	625	2.10	3000	5500	
	HB5RH-436HOR	super fresh red		635	625	2.10	3200	6400	
	HB5RH-437HA	super amber		607	605	2.00	4600	9200	70/25
HB5RH-438ABCA	blue	468		470	3.50	700	1400		
HB5RH-438ABD	blue	468	470	3.50	900	1800			

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.