


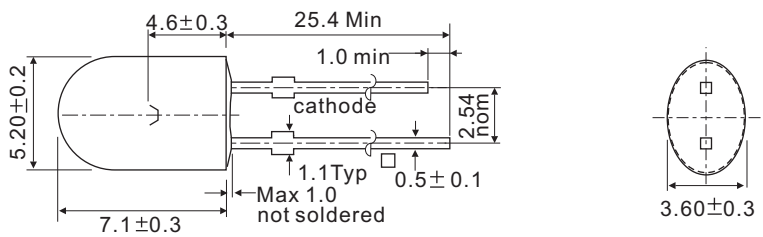


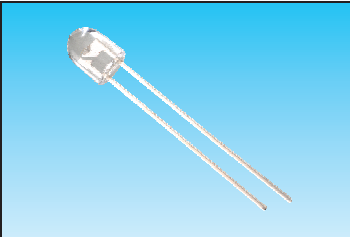
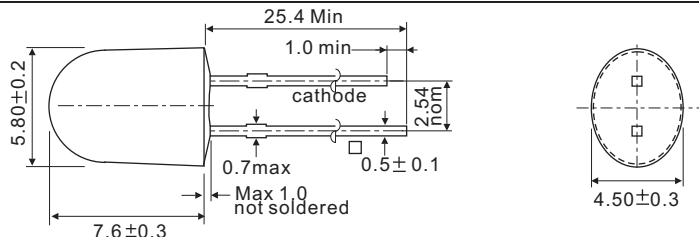
# Extra Bright LEDs

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

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

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.