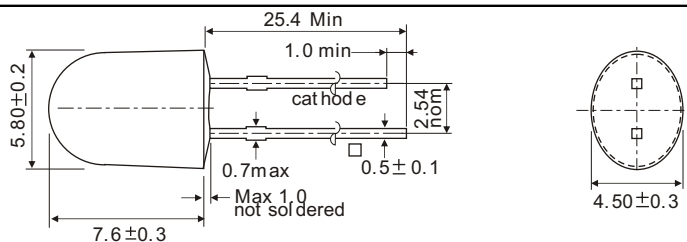


# Extra Bright LEDs

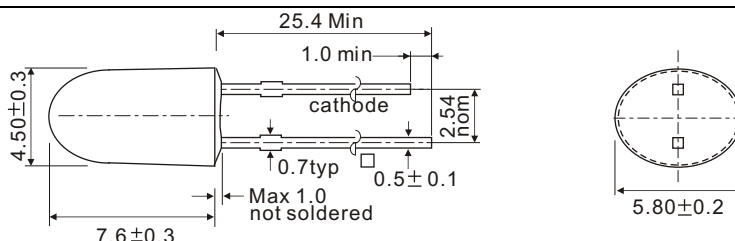
Oval Type

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	



oval φ	HB5RH-433CG	yellow green	water clear	570	567	2.15	175	600	70/25
	HB5RH-433BA	bluish green	water clear	502	505	3.50	4500	5000	70/25
	HB5RH-433AGCA	pure green	water clear	523	525	3.50	4000	4000	70/25
	HB5RH-433AGD	pure green	water clear	523	525	3.50	5000	6000	70/25
	HB5RH-434FY	Yellow	water clear	592	590	2.00	1500	3800	70/25
	HB5RH-434SY	Yellow	water clear	592	590	2.25	2400	5200	70/25
	HB5RH-435FO	orange	water clear	620	615	2.00	1800	3800	70/25
	HB5RH-435AOR	fresh red	water clear	635	626	2.00	1300	3300	70/25
	HB5RH-435SOR	fresh red	water clear	638	629	2.20	3500	4300	70/25
	HB5RH-436ARA	deep red	water clear	660	645	1.86	600	2700	70/25
	HB5RH-438ABCA	blue	water clear	465	470	3.50	1400	1400	70/25
	HB5RH-438ABD	blue	water clear	465	470	3.50	1800	1800	70/25



oval φ	HB5RV-433CG	yellow green	water clear	570	567	2.15	175	600	25/70
	HB5RV-433BA	bluish green	water clear	502	505	3.50	4500	5000	25/70
	HB5RV-433AGCA	pure green	water clear	523	525	3.50	4000	4000	25/70
	HB5RV-433AGD	pure green	water clear	523	525	3.50	5000	6000	25/70
	HB5RV-434FY	yellow	water clear	592	590	2.00	1500	3800	25/70
	HB5RV-434SY	Yellow	water clear	592	590	2.25	2400	5200	25/70
	HB5RV-435FO	orange	water clear	620	615	2.00	1800	3800	25/70
	HB5RV-435AOR	fresh red	water clear	635	626	2.00	1300	3300	25/70
	HB5RV-435SOR	fresh red	water clear	638	629	2.20	3500	4300	25/70
	HB5RV-436ARA	deep red	water clear	660	645	1.86	600	2700	25/70
	HB5RV-438ABCA	blue	water clear	465	470	3.50	1400	1400	25/70
	HB5RV-438ABD	blue	water clear	465	470	3.50	1800	1800	25/70

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.