

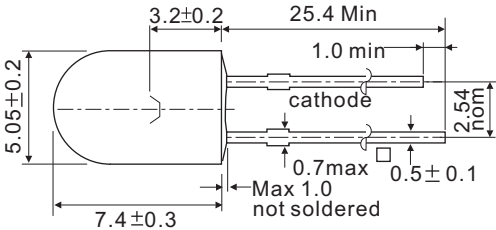


Extra Bright LEDs

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									UNIT: mm	
	HB4Q-433CG		super yellow green	Water clear	570	567	2.15	175	600	40/20
	HB4Q-433EBA		cyan		502	505	3.50	4500	5000	
	HB4Q-433EAGCA		pure green		523	525	3.50	4000	4500	
	HB4Q-433EAGD		pure green		523	525	3.50	4800	5500	
	HB4Q-434FY		super yellow		592	590	2.00	1500	4000	
	HB4Q-434SY		super yellow		592	590	2.25	2700	5700	
	HB4Q-434UY		super yellow		592	590	2.10	3000	6000	
	HB4Q-434WY		super yellow		592	590	2.10	3200	6500	
	HB4Q-434HY		super yellow		592	590	2.10	3400	6800	
	HB4Q-435FO		super orange		620	615	2.00	1800	4000	
	HB4Q-435AOR		super fresh red		635	625	2.00	1300	3400	
	HB4Q-435SOR		super fresh red		638	629	2.25	3000	6000	
	HB4Q-436ARA		super deep red		660	645	1.86	1400	2800	
	HB4Q-436UOR		super fresh red		635	625	2.10	3100	6200	
	HB4Q-436WOR		super fresh red		635	625	2.10	3600	6800	
	HB4Q-436HOR		super fresh red		635	625	2.10	3800	7500	
	HB4Q-437HA		super amber		607	605	2.00	5500	11000	
	HB4Q-438ABCA		blue		468	470	3.50	1400	1500	
	HB4Q-438ABD		blue		468	470	3.50	1800	2000	

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.