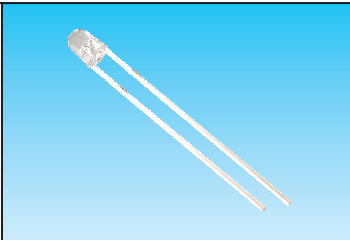
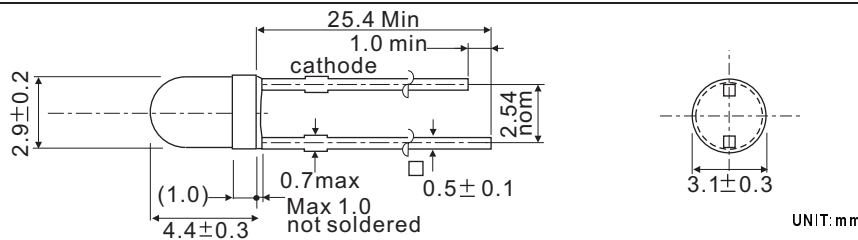


Extra Bright LEDs



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	

										UNIT: mm
HB3J-443DG		yellow green	Water clear	570	567	2.15	80	160	40	
HB3J-443CG		yellow green		570	567	2.15	250	500		
HB3J-443BG		super yellow green		575	572	2.20	450	800	35	
HB3J-443BA		cyan		502	505	3.50	1500	1800	30	
HB3J-443AGCA		pure green		523	525	3.50	1600	2200		
HB3J-443AGD		pure green		523	525	3.50	1800	2500	40	
HB3J-444AY		super yellow		592	590	2.00	800	1200		
HB3J-444FY		super yellow		592	590	2.00	1000	2000		
HB3J-444WY		super yellow		592	590	2.10	1100	2200		
HB3J-444HY		super yellow		592	590	2.10	1200	2400	30	
HB3J-445AO		super orange		620	615	2.00	800	1200		
HB3J-445FO		super orange		620	615	2.00	1300	1600	40	
HB3J-445AOR		super fresh red		635	625	2.00	900	1000		
HB3J-446DR		deep red		660	643	1.80	120	250	50	
HB3J-446CR		deep red		660	643	1.80	200	400		
HB3J-446AR		super deep red		660	645	1.86	400	1000	30	
HB3J-446ARA		super deep red		660	645	1.86	450	1300		
HB3J-446WOR		super fresh red		635	625	2.10	1100	2200	40	
HB3J-446HOR		super fresh red		635	625	2.15	1200	2400		
HB3J-447FA		super amber		607	605	2.00	800	1600		
HB3J-447HA		super amber		607	605	2.00	1500	3000	30	
HB3J-448ABCA		blue		468	470	3.50	650	1320		
HB3J-448ABD		blue		468	470	3.50	750	1500		

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.