


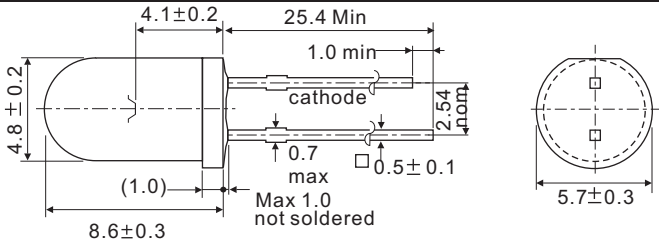


Extra Bright LEDs

Lamps For Traffic Signal Use.

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	

									
φ 5	HB5d-433BG-C	super yellow green	Water clear	575	572	2.20	800	1800	24
	HB5d-433EBA-C	cyan		502	505	3.50	3500	6000	26
	HB5d-433EAGCA-C	pure green		523	525	3.50	4000	6500	
	HB5d-433EAGD-C	pure green		523	525	3.50	4500	7000	
	HB5d-434FY-C	super yellow		592	590	2.00	1800	3800	24
	*HB5d-434SY-C	super yellow		592	590	2.25	2400	4800	
	HB5d-434UY-C	super yellow		592	590	2.10	2500	5000	
	HB5d-434WY-C	super yellow		592	590	2.10	2600	5200	
	HB5d-434HY-C	super yellow		592	590	2.10	2700	5500	
	HB5d-435FO-C	super orange		620	615	2.00	2000	3800	
	HB5d-435AOR-C	super fresh red		635	625	2.00	1300	3300	24
	*HB5d-435SOR-C	super fresh red		638	629	2.25	2200	4500	
	HB5d-436UOR-C	super fresh red		635	625	2.10	2500	5000	
	HB5d-436WOR-C	super fresh red		635	625	2.10	3000	5500	
	HB5d-436HOR-C	super fresh red		635	625	2.10	3200	6300	
	HB5d-437FA-C	super amber		607	605	2.00	2400	3800	
	HB5d-437HA-C	super amber		607	605	2.00	4600	9200	26
	HB5d-438ABCA-C	blue		468	470	3.50	2100	2100	
HB5d-438ABD-C	blue	468	470	3.50	2600	2600			

*:TS type LED lamps. IV1:Labsphere LED-1100 IV2:EXELTRON 2001.


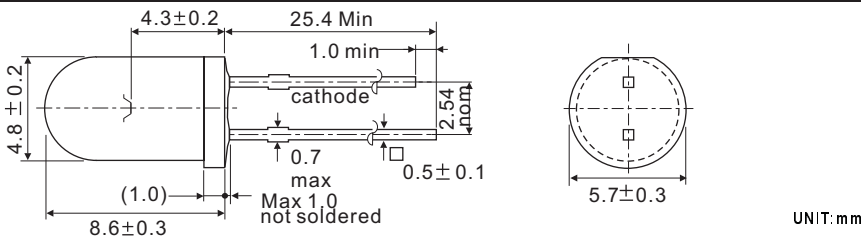
Extra Bright LEDs



Lamps For Traffic Signal Use.

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	

									
HB5d-433BG-D		super yellow green	Water clear	575	572	2.20	600	1500	30
HB5d-433EBA-D		cyan		502	505	3.50	2800	5000	33
HB5d-433EAGCA-D		pure green		523	525	3.50	3000	5400	
HB5d-433EAGD-D		pure green		523	525	3.50	3500	6000	
HB5d-434FY-D		super yellow		592	590	2.00	1200	3000	30
*HB5d-434SY-D		super yellow		592	590	2.25	2000	4000	
HB5d-434UY-D		super yellow		592	590	2.10	2100	4300	
HB5d-434WY-D		super yellow		592	590	2.10	2300	4500	
HB5d-434HY-D		super yellow		592	590	2.10	2400	4800	
HB5d-435FO-D		super orange		620	615	2.00	1400	3000	
HB5d-435AOR-D		super fresh red		635	625	2.00	1100	2800	
*HB5d-435SOR-D		super fresh red		638	629	2.25	3000	4000	
HB5d-436UOR-D		super fresh red		635	625	2.10	2400	4800	30
HB5d-436WOR-D		super fresh red		635	625	2.10	2600	5200	
HB5d-436HOR-D		super fresh red		635	625	2.10	2800	5500	
HB5d-437FA-D		super amber		607	605	2.00	1600	3000	
HB5d-437HA-D		super amber		607	605	2.00	4200	8500	33
HB5d-438ABCA-D		blue		468	470	3.50	1600	1800	
HB5d-438ABD-D		blue		468	470	3.50	2000	2200	

*:TS type LED lamps. IV1:Labsphere LED-1100 IV2:EXELTRON 2001.