

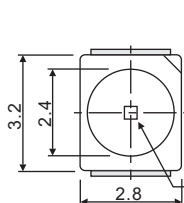
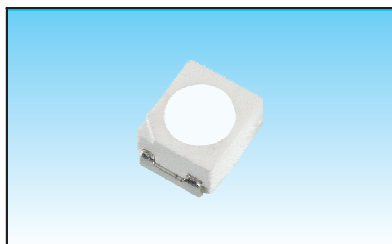


Top LEDs

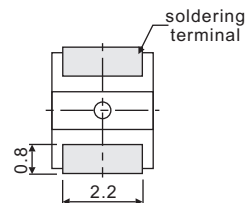
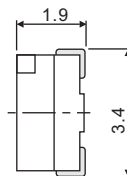
With Reflector Type 3.4mm(L) X 2.8mm(W) X 1.9mm(H)

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	



LED Dice



polarity

UNIT:mm

polarity is reversed when WY,WYA.HY,DR,CR,ARA,WOR,WORA.HOR.HA

HTLB2-43		yellow green	Water clear	570	567	2.15	25.0	25.0	120
HTLB2-43CG		yellow green		570	567	2.15	30.0	30.0	
HTLB2-43BG		super yellow green		575	572	2.20	70.0	70.0	
HTLB2-43AGC		pure green		523	525	3.20	600.0	600.0	
HTLB2-43B		cyan		502	505	3.20	300.0	300.0	
HTLB2-44		yellow		589	585	2.10	15.0	15.0	
HTLB2-44AY		super yellow		592	590	2.00	125.0	125.0	
HTLB2-44FY		super yellow		592	590	2.00	210.0	210.0	
HTLB2-44SY		super yellow		592	590	2.25	320.0	320.0	
HTLB2-44WY		super yellow		592	590	2.10	480.0	480.0	100
HTLB2-44WYA		super yellow		592	590	2.10	560.0	560.0	
HTLB2-44HY		super yellow		592	590	2.10	850.0	850.0	
HTLB2-45		hi-eff red		625	618	2.05	12.0	12.0	120
HTLB2-45AO		super orange		620	615	2.00	150.0	150.0	
HTLB2-45FO		super orange		620	615	2.00	240.0	240.0	
HTLB2-45AOR		super fresh red		635	625	2.00	210.0	210.0	
HTLB2-45SOR		super fresh red		638	629	2.25	280.0	280.0	
HTLB2-46DR		super red		660	643	1.80	32.0	32.0	
HTLB2-46CR		super red		660	643	1.80	45.0	45.0	105
HTLB2-46ARA		super red		660	645	1.86	100.0	100.0	
HTLB2-46WOR		super fresh red		635	625	2.10	520.0	520.0	
HTLB2-46WORA		super fresh red		635	625	2.10	600.0	600.0	
HTLB2-46HOR		super fresh red		635	625	2.10	650.0	650.0	
HTLB2-47		amber		610	606	2.05	15.0	15.0	120
HTLB2-47FA		super amber		607	605	2.00	160.0	160.0	
HTLB2-47HA		super amber		607	605	2.10	1000.0	1000.0	
HTLB2-48ABD		super blue		462	465	3.30	210.0	210.0	

IV1:Labsphere LED-1100 IV2:EXELTRON 2001.

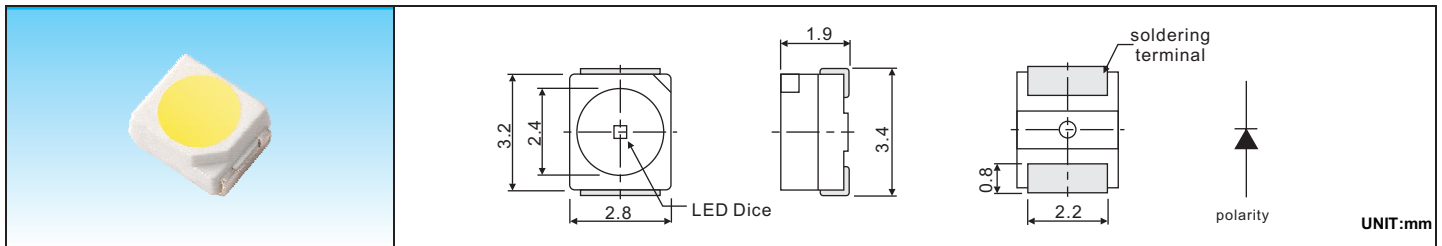
Top LEDs



With Reflector Type 3.4mm(L) X 2.8mm(W) X 1.9mm(H)

IF=20mA Ta=25°C

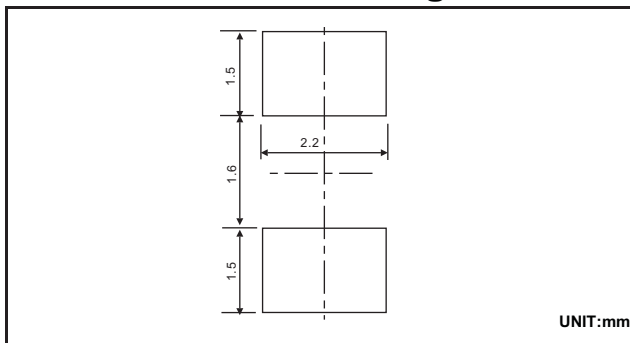
Device No	Color		Wavelength (nm)		VF Typical (V)	Brightness (mcd)		View Angle 2θ1/2
	Emitter	Lens	λ_p	λ_d		IV1	IV2	



HTLB2-49AWE		super white	Yellow diffused	(x:0.29, y:0.30)	3.30	1060.0	1060.0	120
HTLB2-49YWE		warm white		(x:0.40, y:0.41)	3.30	880.0	880.0	

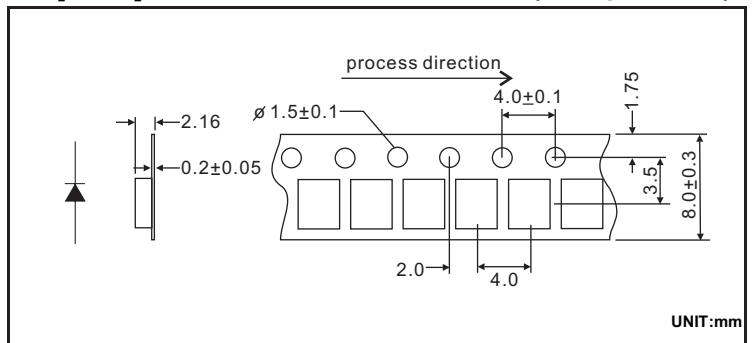
IV1:Labsphere LED-1100 IV2:EXELTRON 2001.

Recommended Soldering Pattern:



Tape Specifications:

(2,000pcs/Reel)



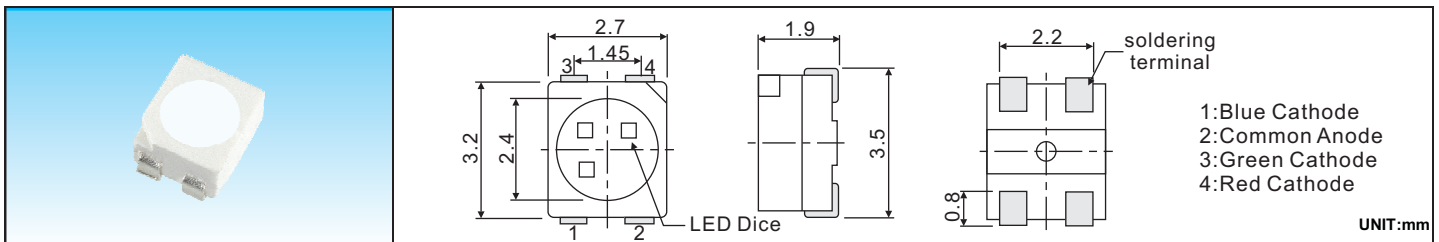


Top LEDs

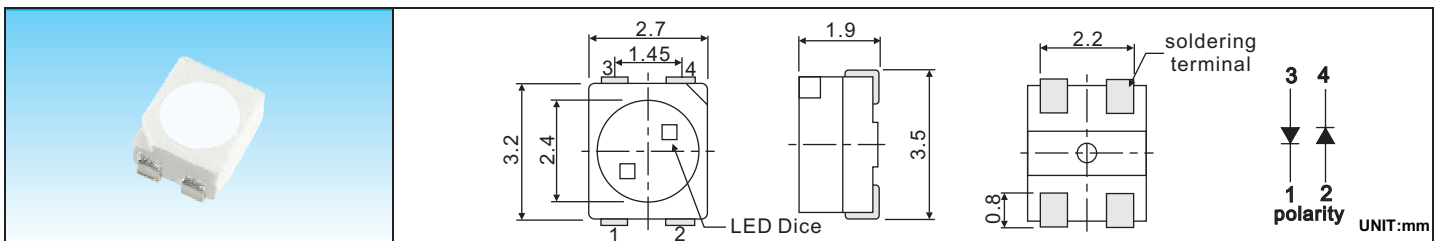
With Reflector Type 3.5mm(L) X 2.7mm(W) X 1.9mm(H)

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	



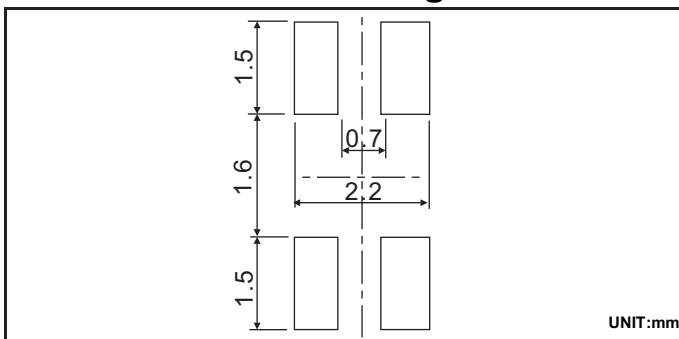
HTLB4-AOR AGD ABD		super fresh red	Water clear	635	625	2.00	210.0	210.0	120
		super green		523	525	3.20	600.0	600.0	
		super blue		462	465	3.30	180.0	180.0	



HTLB4-453		hi-eff red	Water clear	625	618	2.05	20.0	20.0	120
		yellow green		570	567	2.15	25.0	25.0	
HTLB4-45AOR3BG		super fresh red		635	625	2.00	210.0	210.0	
		yellow green		575	572	2.20	70.0	70.0	
HTLB4-45AOR3AGD		super fresh red		635	625	2.00	210.0	210.0	
		super green		523	525	3.20	600.0	600.0	
HTLB4-45AOR8ABD		super fresh red		635	625	2.00	210.0	210.0	
		super blue		462	465	3.30	180.0	180.0	

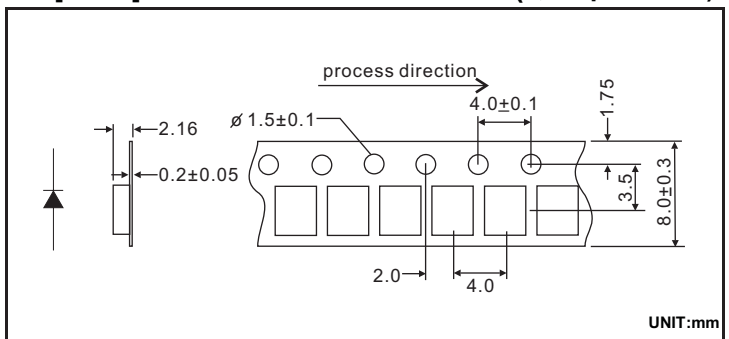
IV1:Labsphere LED-1100 IV2:EXELTRON 2001.

Recommended Soldering Pattern:



Tape Specifications:

(2,000pcs/Reel)



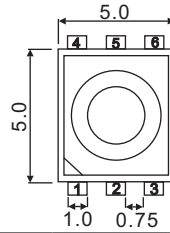
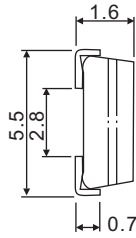
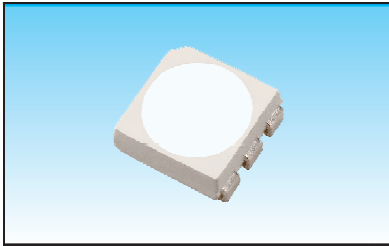
Top LEDs



With Reflector Type 5.0mm(L) X 5.0mm(W) X 1.6mm(H)

IF=60mA Ta=25°C

Device No	Color		Wavelength (nm)		VF Typical (V)	Brightness (mcd)		View Angle 2θ1/2
	Emitter	Lens	λ_p	λ_d		IV1	IV2	



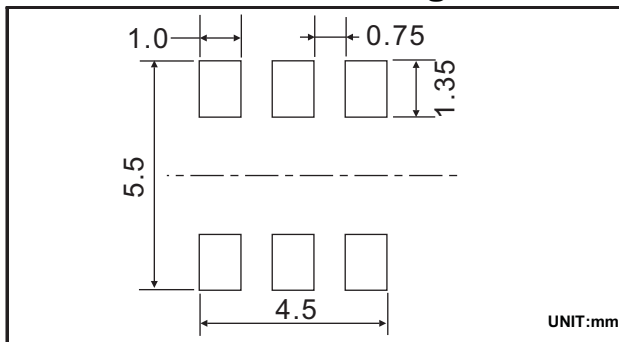
polarity is reversed when WY, WOR

UNIT:mm

*HTLB4a-AOR AGD ABD		super fresh red	Water clear	635	625	2.00	280	280	120
		super green		523	525	3.20	600	600	
		super blue		462	465	3.30	210	210	
HTLB4a-43BG BG BG		super yellow green		575	572	2.15	175	175	
HTLB4a-43AGD AGD AGD		pure green		523	525	3.20	1900	1900	
HTLB4a-43BA BA BA		cyan		502	505	3.20	750	750	
HTLB4a-44WY WY WY		super yellow		592	590	2.10	1200	1200	
HTLB4a-44HY HY HY		super yellow		592	590	2.10	1250	1250	
HTLB4a-45SOR SOR SOR		super fresh red		638	629	2.25	700	700	
HTLB4a-46WOR WOR WOR		super fresh red		635	625	2.10	1300	1300	
HTLB4a-47HA HA HA		super amber		607	605	2.10	2500	2500	
HTLB4a-48ABD ABD ABD		super blue		462	465	3.30	680	680	
HTLB4a-49AWF AWF AWF		super white	Yellow diffused	(x:0.29,y:0.30)		3.30	5500	5500	
HTLB4a-49YWF YWF YWF		Super warm white		(x:0.40,y:0.41)		3.30	4200	4200	

*Each pair of Pin IF=20mA IV1:Labsphere LED-1100 IV2:EXELTRON 2001.

Recommended Soldering Pattern:



Tape Specifications:

(1,000pcs/Reel)

