

Solid State Lamp (LED Lamp Cluster)

General Description

Sharp can supply 6 models of solid state lamps ; 22X22mm, ø26 mm series and ø52 mm series. The radiation color is dichromatic emission type; red(super-luminosity) and yellow-green.

They are suited for LED information displays for outdoor use because they featured water-proof structure and high visibility due to the employment of wide viewing angle high-luminosity LED lamps.

Model Line-up

Radiation color	Radiation shape (mm)	Model No.	Viewing angle	Outline dimensions
Yellow-green+ Red(Super-luminosity)	22X22(Oval lamp type)	LT6822	Horizontal±35°, Vertical±15°	1
	ø26	LT6610	±25°	2
	26X26(Oval lamp type)	LT6850	Horizontal±35°, Vertical±15°	3
	ø52	LT6710	±25°	4
	ø52(Food-cut type)	LT6725		5



Absolute Maximum Ratings

(Ta=25°C)

Model No.	Radiation color	Power dissipation P (W)	Forward current IF (mA)	Reverse current VR (V)	Operating temperature T _{opr.} (°C)	Storage temperature T _{stg.} (°C)
LT6822	Yellow-green	0.52	60	16	-25 to +60	-30 to +100
	Red(Super-luminosity)	0.23	30	16		
LT6610	Yellow-green	0.6	60	15	-25 to +60	-30 to +100
	Red(Super-luminosity)	0.3	30	15		
LT6850	Yellow-green	0.65	60	15	-25 to +60	-30 to +100
	Red(Super-luminosity)	0.3	30	15		
LT6710	Yellow-green	1.7	90	24	-25 to +60	-30 to +100
	Red(Super-luminosity)	1.1	60	24		
LT6725	Yellow-green	2.3	120	24	-25 to +60	-30 to +100
	Red(Super-luminosity)	0.8	60	24		

Electro-optical Characteristics

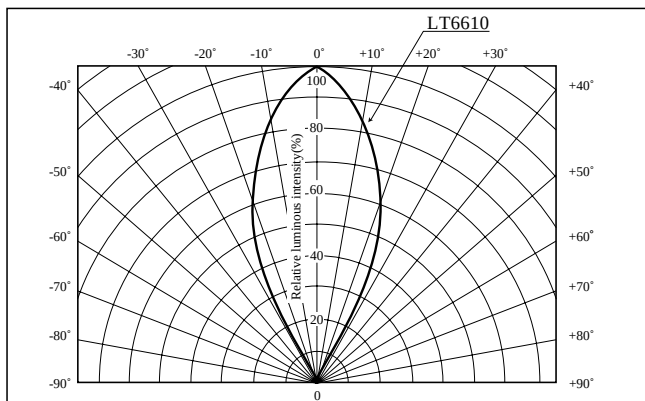
(Ta=25°C)

Model No.	Radiation color	Forward voltage VF(V)		Luminous intensity Iv (cd) TYP.	Peak emission wavelength λp (nm) TYP.	Spectrum radiation bandwidth Δλ(nm) TYP.	IF (mA)	Reverse current	
		TYP.	MAX.					IR(μA) MAX.	VR (V)
LT6822	Yellow-green	8.6	9.2	1.05	565	30	40	20	16
	Red(Super-luminosity)	7.4	8.0	1.6	660	20	20	100	16
LT6610	Yellow-green	8.5	9.4	0.8	565	30	40	100	15
	Red(Super-luminosity)	9.3	10.2	1.6	660	20	20	100	15
LT6850	Yellow-green	10.8	11.8	1.8	565	30	40	100	15
	Red(Super-luminosity)	9.3	10.3	2.0	660	20	20	100	15
LT6710	Yellow-green	19.0	20.5	3.2	565	30	60	100	24
	Red(Super-luminosity)	18.5	20.0	6.0	660	20	40	100	24
LT6725	Yellow-green	19.0	20.5	5.0	565	30	40	100	24
	Red(Super-luminosity)	13.2	14.0	5.0	660	20	80	100	24

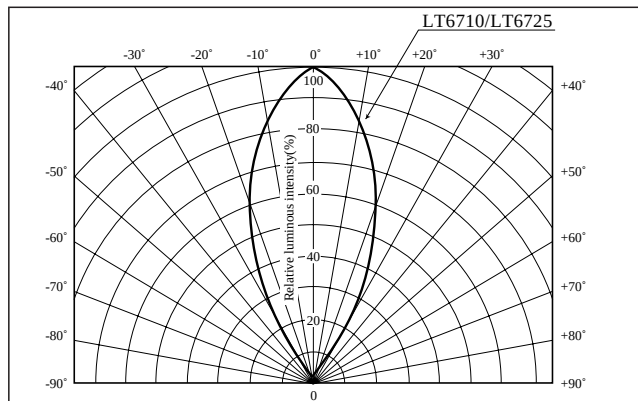
Solid State Lamp Radiation Diagrams/Outline Dimensions(Unit:mm)

Radiation Diagrams

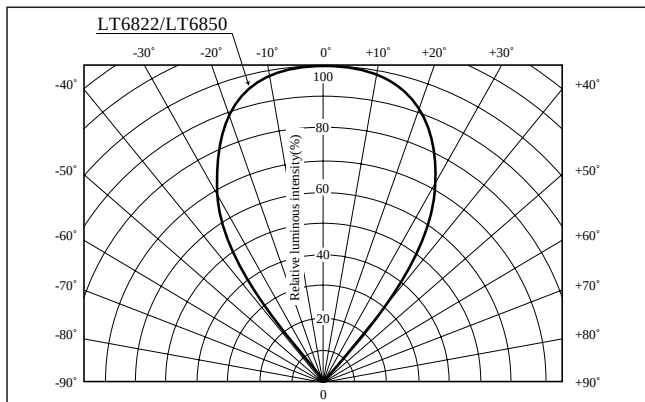
(Ta=25°C)



(Ta=25°C)

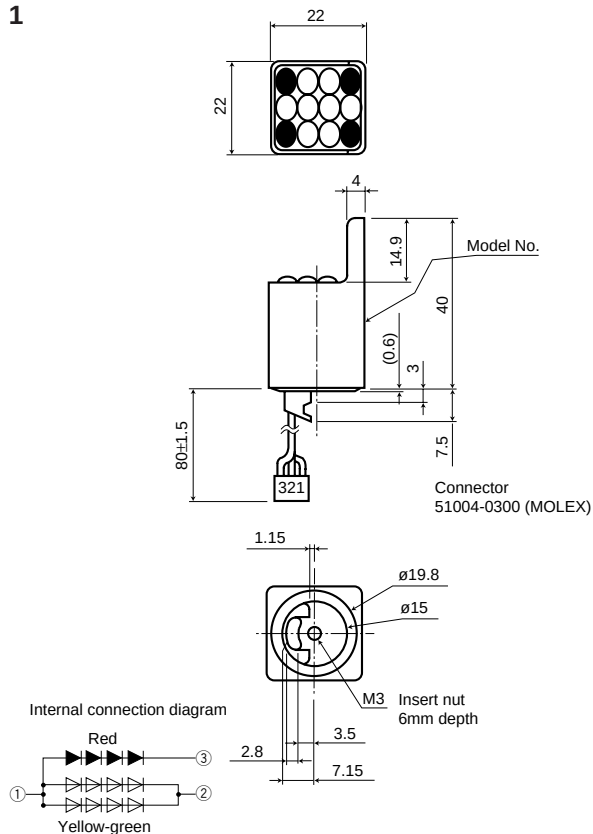


(Ta=25°C)



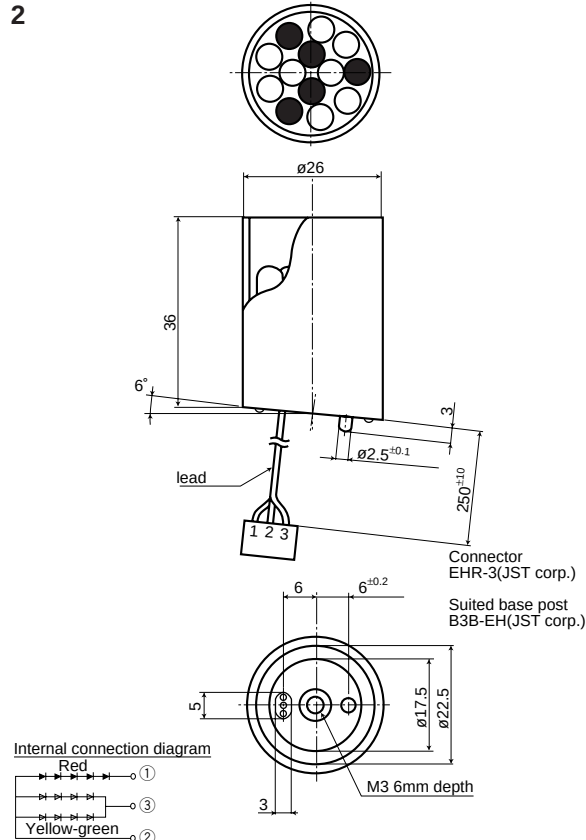
*As for current conditions, refer to I_e in electro-optical characteristics.

1



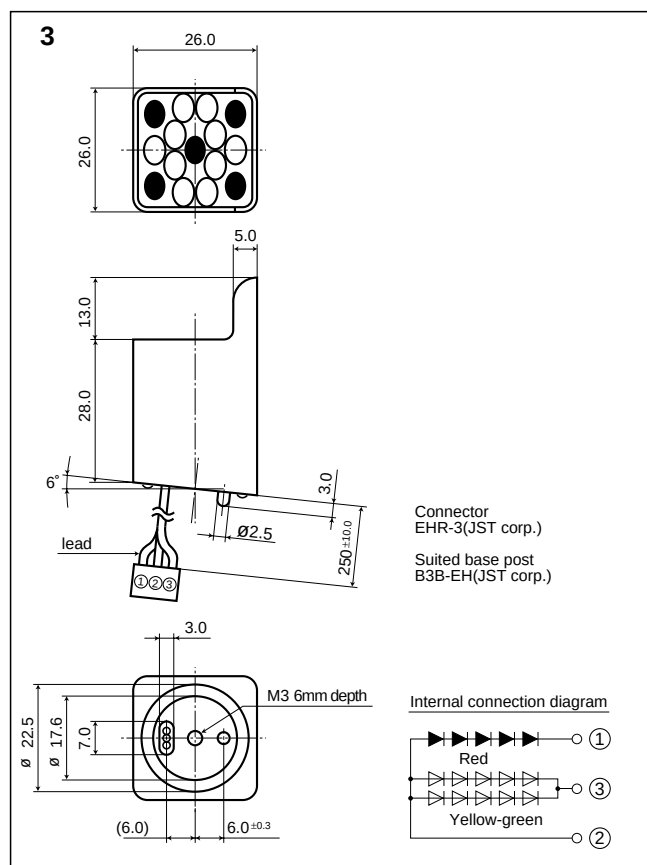
LT6822

2

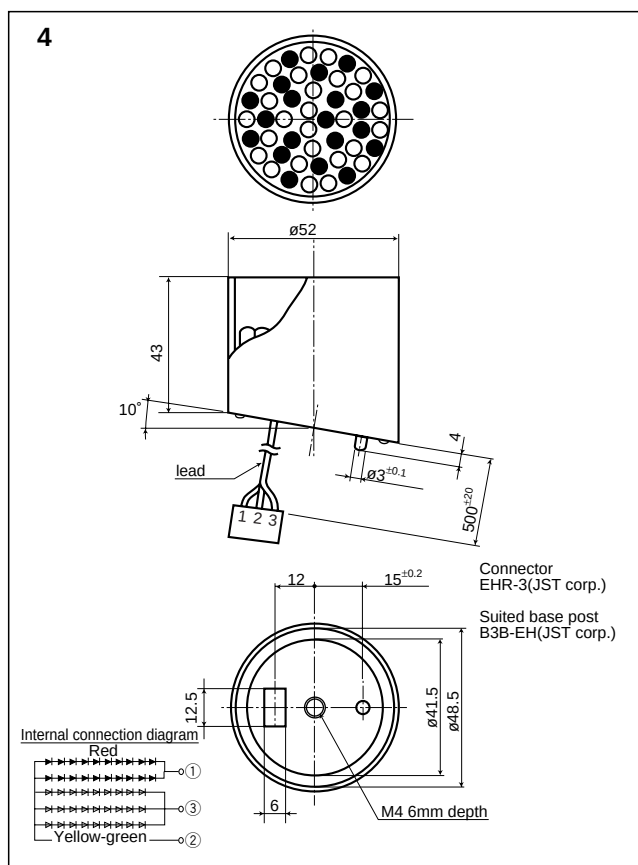


LT6610

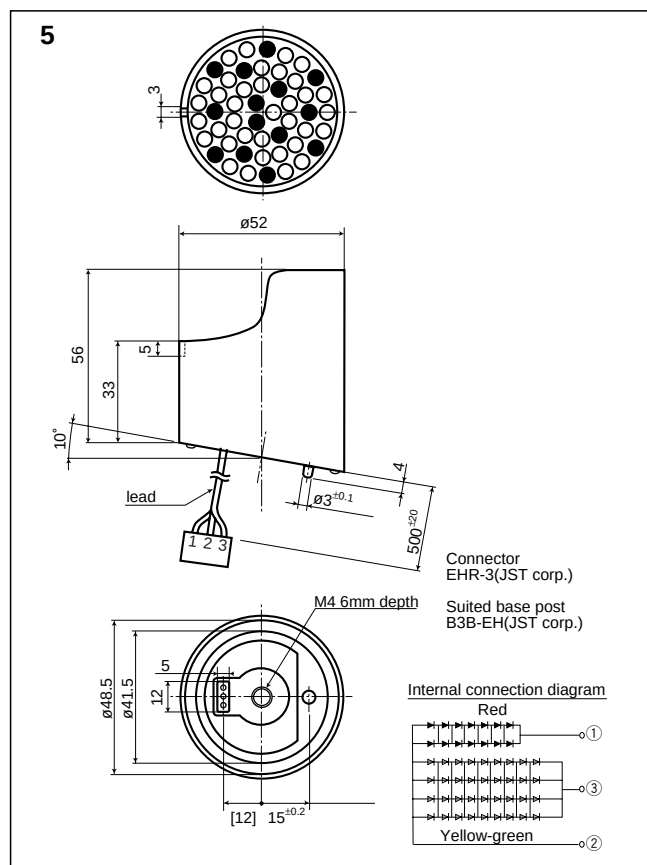
Solid State Lamp Outline Dimensions(Unit:mm)



LT6850



LT6710



LT6725

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