

LT6725

φ 52mm Waterproof Package
With Hood Type Dichromatic
Solid State Lamp

Model No.

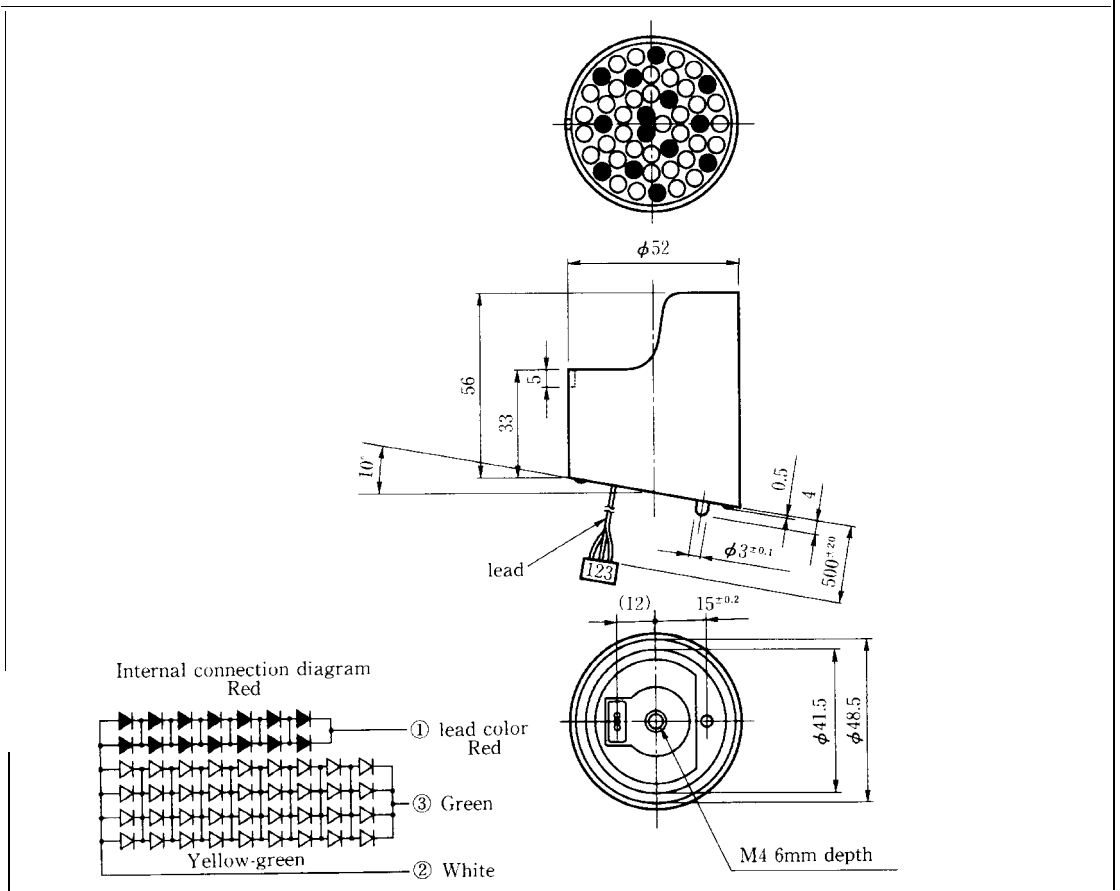
LT6725 Yellow-green GaP
Red(Super-luminosity) GaAlAs/GaAlAs

Features

1. φ52mm dichromatic solid state lamps
2. Radiation color : Yellow-green, red and orange(mixed color)
3. No. of built-in φ5mm LED lamps
Yellow-green :36 pcs., Red : 14 pcs.
4. Waterproof package with hood
5. Static drive
6. Best suitable for outdoor and indoor information boards
7. Wide viewing angle

Outline Dimensions

(Unit : mm)



LT6725**■ Absolute Maximum Ratings**(T_a = 25°C)

Parameter	Symbol	LT6725				Unit
		Yellow-green	Red			
Power dissipation	P	2.3	0.8			W
Continuous forward current	I _F	120	60			mA
Peak forward current	I _{FM}					mA
Derating factor	DC	—				mA/°C
	Pulse	—				mA/°C
Reverse voltage	V _R	24				V
Operating temperature	T _{opr}	-25 to +60				°C
Storage temperature	T _{stg}	-30 to +100				°C
Soldering temperature	T _{sol}					°C

LT6725(Yellow-green/Red)

Electro-optical Characteristics(DC)

(Ta = 25°C)

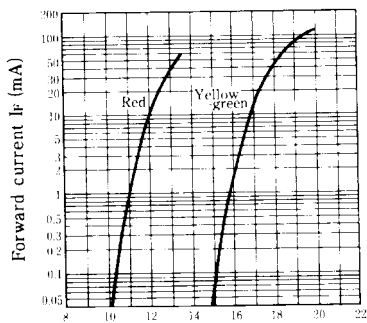
Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	Yellow-green	I _F = 80mA		19.0	20.5	V
		Red	I _F = 40mA		13.2	14.0	
*1 Luminous intensity	I _V	Yellow-green	I _F = 80mA	3.2	4.5	-	cd
		Red	I _F = 40mA	3.2	4.5	-	
Peak emission wavelength	λ _P	Yellow-green	I _F = 80mA		565	-	nm
		Red	I _F = 40mA		660	-	
Spectrum radiation bandwidth	Δλ	Yellow-green	I _F = 80mA		30	-	nm
		Red	I _F = 40mA		20	-	
Reverse current	I _R	Yellow-green	V _R = 24V			100	μA
		Red	V _R = 24V			100	
Terminal capacitance	C _t	Yellow-green	-				pF
		Red	-				
Response frequency	f _c	Yellow-green	-		0.8	-	MHz
		Red	-		7	1	

*1 Tolerance : ±20%

Characteristics Diagrams

Forward Current vs. Forward Voltage

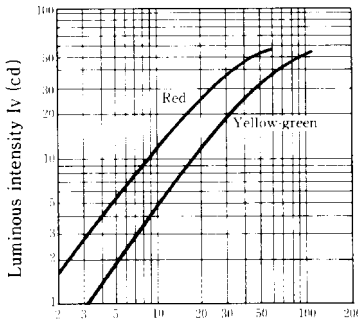
(Ta = 25°C)



Forward voltage V_F (V)

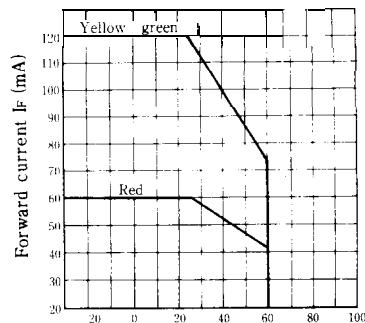
Luminous Intensity vs. Forward Current

(Ta = 25°C)



Forward current I_F (mA)

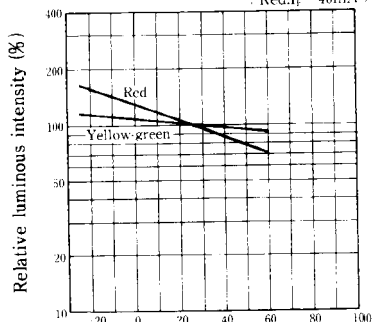
Forward Current Derating Curve



Ambient temperature T_a (°C)

Relative Luminous Intensity vs. Ambient Temperature

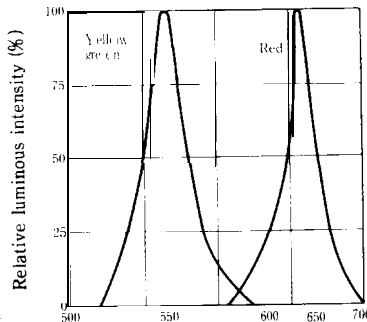
Y-g.L. 80mA
Red.I. 40mA



Ambient temperature T_a (°C)

Spectrum Distribution

(Ta = 25°C)



Wavelength λ (nm)

Radiation Diagram

(Ta = 25°C)

