

LT6701 ϕ 52mm Waterproof Package With Hood Type Dichromatic Solid State Lamp

■ Model No.

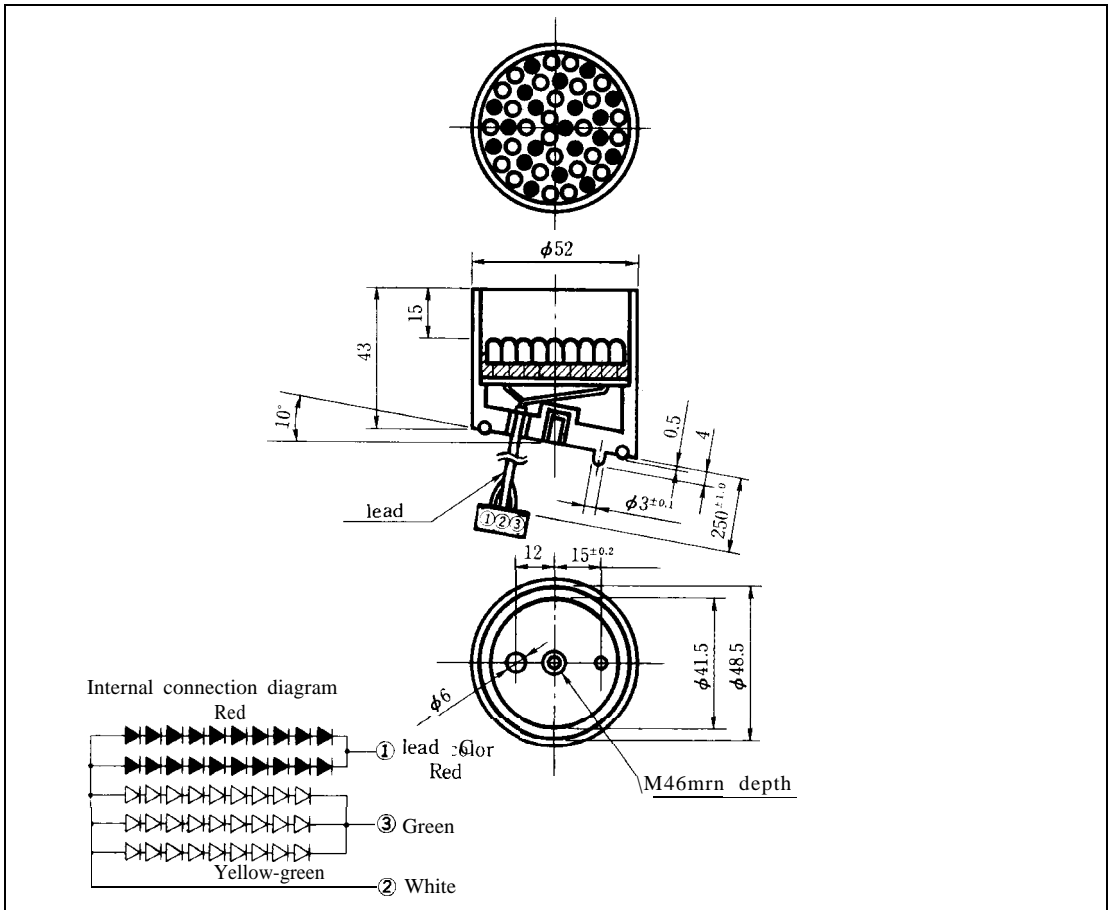
LT6701 Yellow-green GaP
 Red (Super-luminosity) GaAlAs/GaAlAs

■ Features

1. ϕ 52mm dichromatic solid state lamps
2. Radiation color : Yellow-green, red and orange (mixed color)
3. No. of built-in ϕ 5mm LED lamps
 Yellow-green : 27pcs. Red : 20pcs.
4. Waterproof package with hood
5. Static drive
6. Best suitable for outdoor and indoor information boards

■ Outline Dimensions

(Unit: mm)



LT6701

■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT6701				Unit
		Yellow-green	Red			
Power dissipation	P	1.7	1.1			W
Continuous forward current (DC)	I _F	90	60			mA
Peak forward current	I _{FM}	—	—			mA
Derating factor	DC	—	—			nA/°C
	Pulse	—	—			nA/°C
Reverse voltage (DC)	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

3

LT6701 (Yellow-green/Red)

■ **Electro-optical** Characteristics (DC)

(Ta = 25°C)

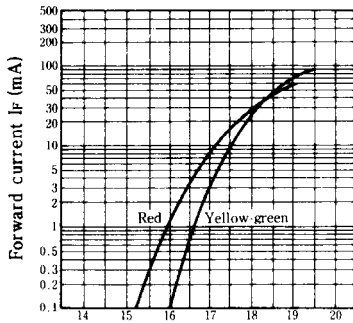
Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	Yellow-green	I _F = 60mA	—	18.8	20	V
		Red	I _F = 40mA	—	18.3	19.5	
*1 Luminous intensity	I _v	Yellow-green	I _F = 60mA	2.8	4.0	—	cd
		Red	I _F = 40mA	4.9	7.0	—	
Peak emission wavelength	λ _p	Yellow-green	I _F = 60mA	—	565	—	nm
		Red	I _F = 40mA	—	660	—	
Spectrum radiation bandwidth	AA	Yellow-green	I _F = 60mA	—	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	—	—	4	—	MHz
		Red	—	—	8	—	

*1 Tolerance: ±20%

■ **Characteristics Diagrams**

Forward Current vs. Forward Voltage

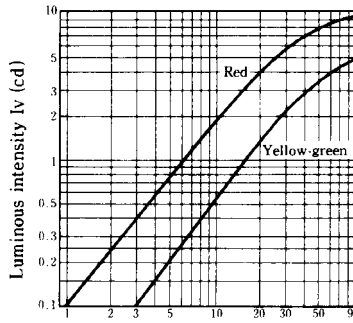
(Ta = 25°C)



Forward voltage V_F (V)

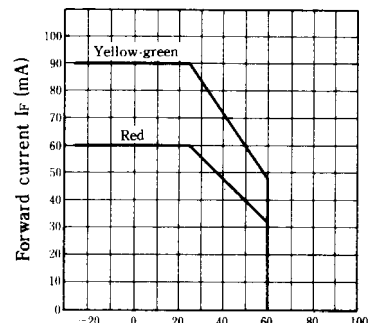
Luminous Intensity vs. Forward Current

(Ta = 25°C)



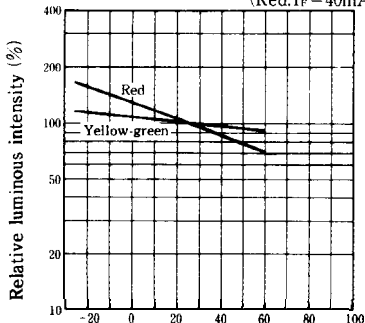
Forward current

Forward Current Derating Curve



Ambient temperature Ta (°C)

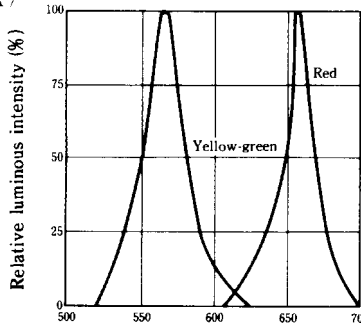
Relative Luminous Intensity vs. Ambient Temperature (Y. g.: I_F = 60mA) (Red: I_F = 40mA)



Ambient temperature Ta (°C)

Spectrum Distribution

(Ta = 25°C)



Wavelength λ (nm)

Radiation Diagram

(Ta = 25°C)

