

LT6720

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

■ Model No.

LT6720 Yellow-green

Red (Super-luminosity)

GaP

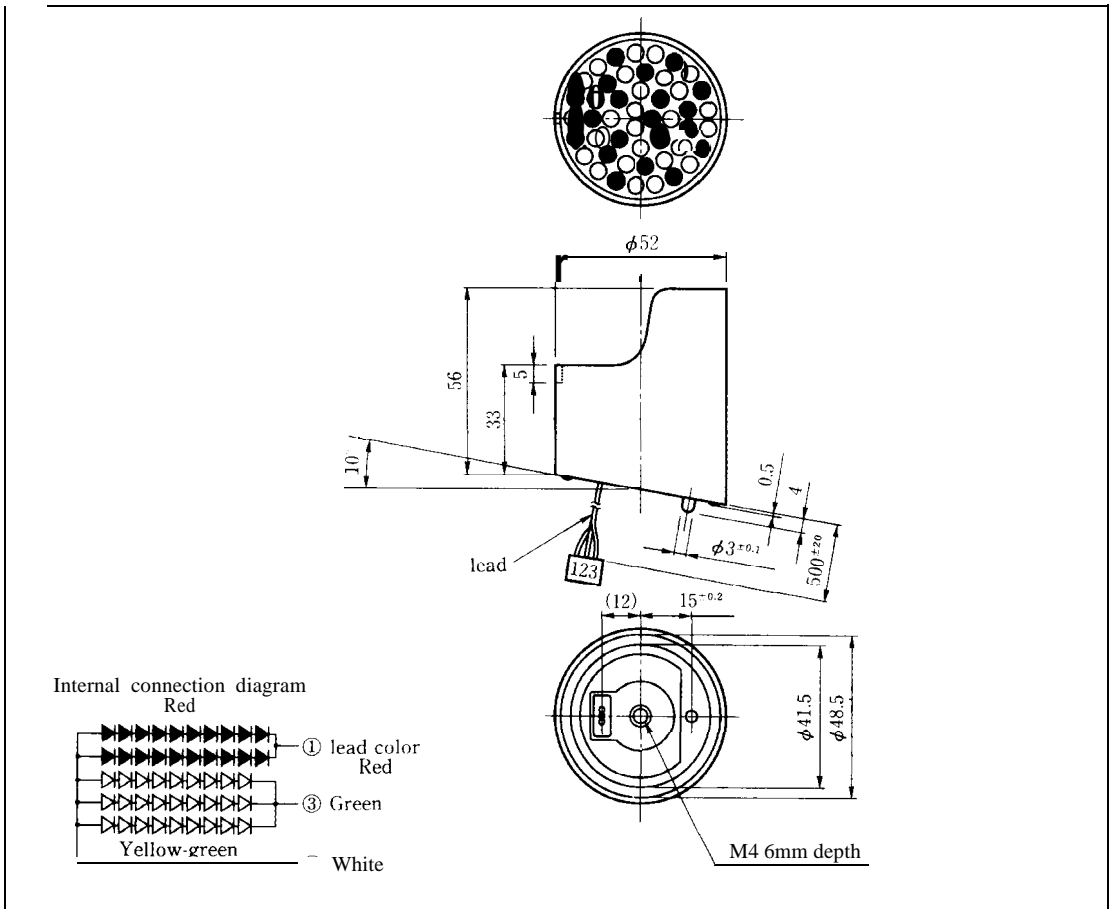
GaAlAs/GaAlAs

■ 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
7. Wide viewing angle

■ Outline Dimensions

(Unit: mm)



LT6720

■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT6720				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	—	—			mA/°C
	Pulse	—	—			mA/°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

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LT6720 (Yellow-green/Red)

■ Electro-optical Characteristics (DC)

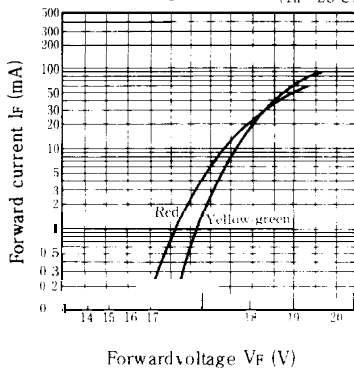
(Ta=25°C)

Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	Yellow-green	I _F = 60mA		19.0	20.5	V
		Red	I _F = 40mA		18.5	20.0	
※1 Luminous intensity	I _V	Yellow-green	I _F = 60mA	2.35	3.2	—	cd
		Red	I _F = 40mA	4.7	6.0	—	
Peak emission wavelength	λ _p	Yellow-green	I _F = 60mA	—	565	—	‘m
		Red	I _F = 40mA	—	660	—	
Spectrum radiation bandwidth	Δλ	Yellow-green	I _F = 60mA	—	30	—	‘m
		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	—	

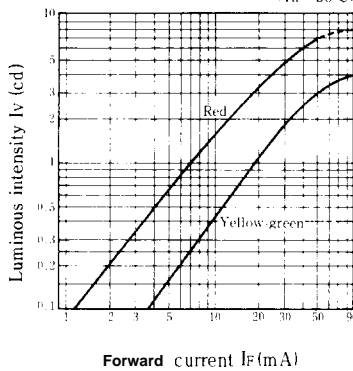
※1 Tolerance: ±20%

■ Characteristics Diagrams

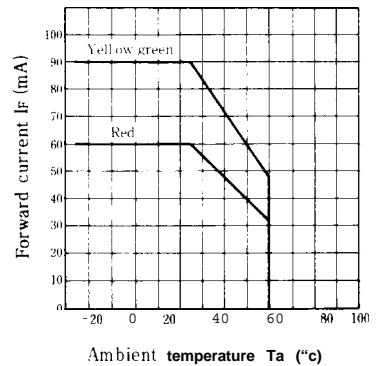
Forward Current vs. Forward Voltage



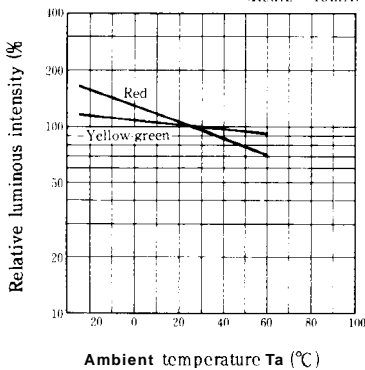
Luminous Intensity vs. Forward Current



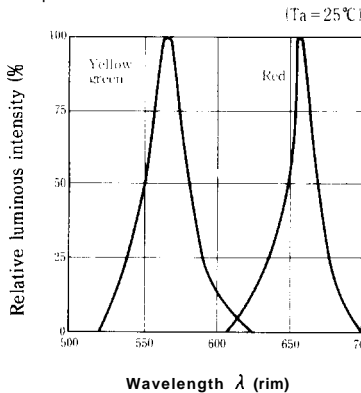
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature



Spectrum Distribution



Radiation Diagram

