

LT6610

φ 26mm Waterproof Package With Hood Type Dichromatic Solid State Lamp

■ Model No.

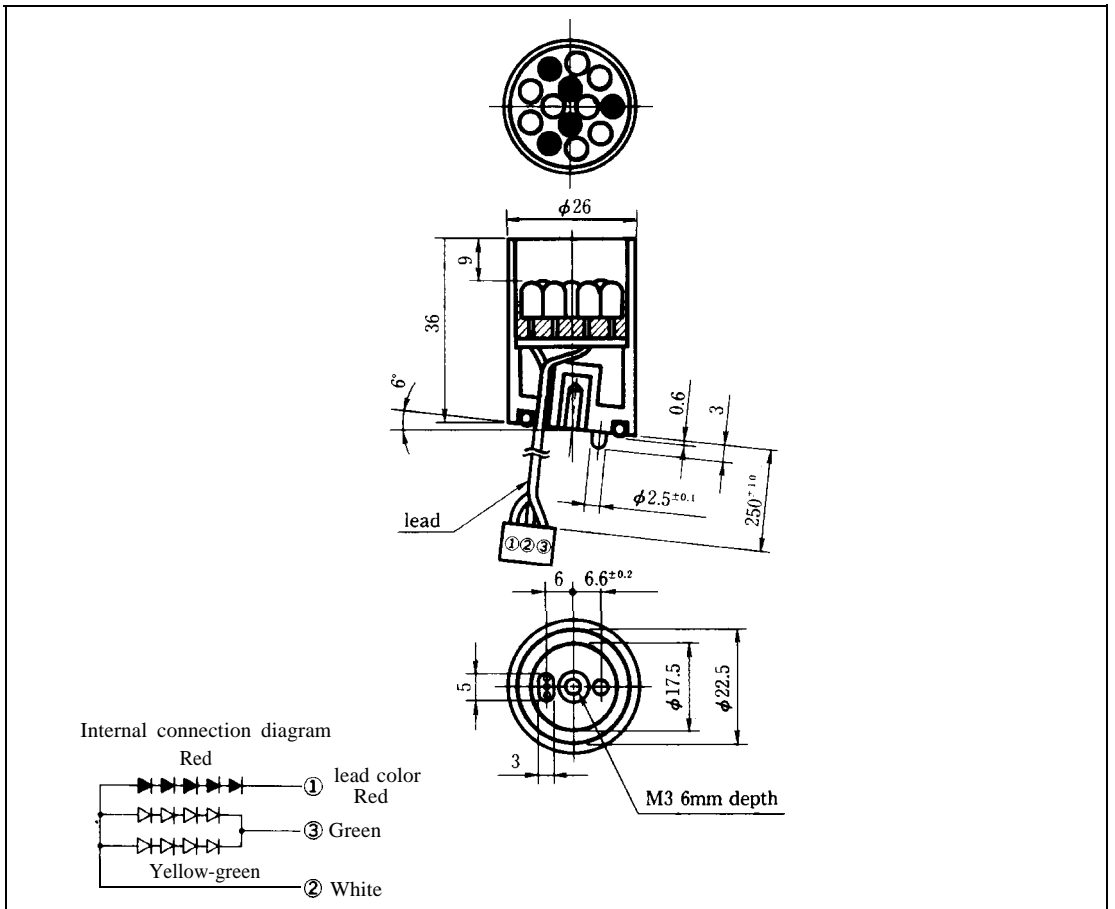
LT6610 Yellow-green GaP
Red (Super-1 uminosity) GaAlAs/GaAlAs

■ Features

1. φ 26mm 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 : 8pcs. Red : 5pcs.
4. Waterproof package with hood
5. Static drive
6. f3est suitable for outdoor and indoor information boards.
7. Wide viewing angle

■ Outline Dimensions

(Unit: mm)



LT6610

■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT6610				Unit
		Yellow-green	Red			
Power dissipation	P	0.6	0.3			W
Continuous forward current (DC)	I _F	60	30			mA
Peak forward current	I _{FM}	—	—			mA
Derating factor	DC	—	—			mA/°C
	Pulse	—	—			mA/°C
Reverse voltage (DC)	V _R	15				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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LT661 O (Yellow-green/Red)

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

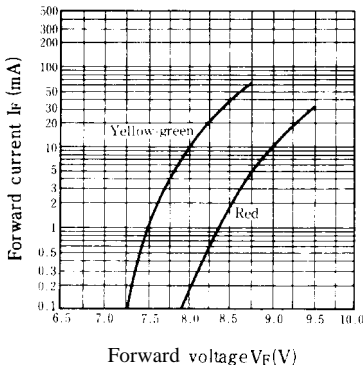
(Ta = 25°C)

Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	Yellow-green	I _F = 40mA		8.5	9.4	V
		Red	I _F = 20mA	—	9.3	10.2	
※1 Luminous intensity	I _v	Yellow-green	I _F = 40mA	0.55	0.8	—	cd
		Red	I _F = 20mA	1.0	1.6	—	
Peak emission wavelength	λ _p	Yellow-green	I _F = 40mA	—	565	—	‘m
		Red	I _F = 20mA	—	660	—	
Spectrum radiation bandwidth	Δλ	Yellow-green	I _F = 40mA	—	30	—	‘m
		Red	I _F = 20mA	—	20	—	
Reverse current	I _R	Yellow-green	V _R = 15V	—	—	100	μA
		Red	V _R = 15V	—	—	100	
Terminal capacitance	c,	Yellow-green	—	—	—	—	pF
		Red	—	—	—	—	
Response frequency	f _c	Yellow-green	—	—	4	—	‘Hz
		Red	—	—	8	—	

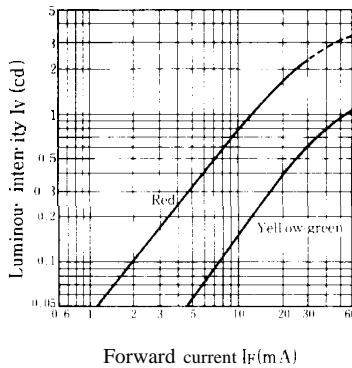
※1 Tolerance: ±20%

■ **Characteristics Diagrams**

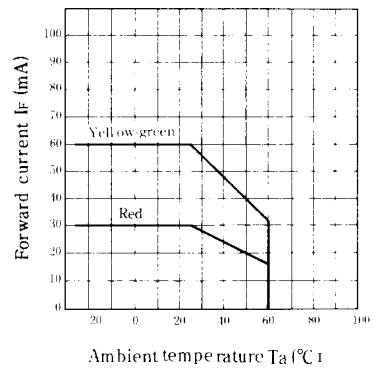
Forward Current vs. Forward Voltage (Ta = 25°C)



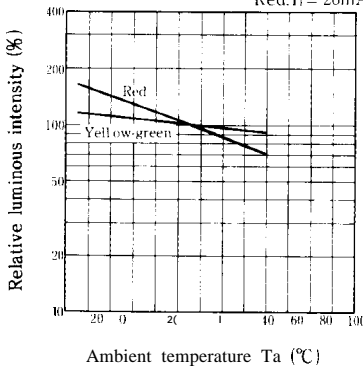
Luminous Intensity vs. Forward Current (Ta = 25°C)



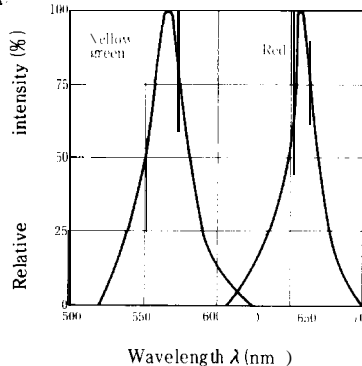
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature (Y.g: I_F = 40mA, Red: I_F = 20mA)



Spectrum Distribution (Ta = 25°C)



Radiation Diagram (Ta = 25°C)

