

# LT9555CU

## φ7.5mm Cylinder Type Common Anode Dichromatic LED Lamps

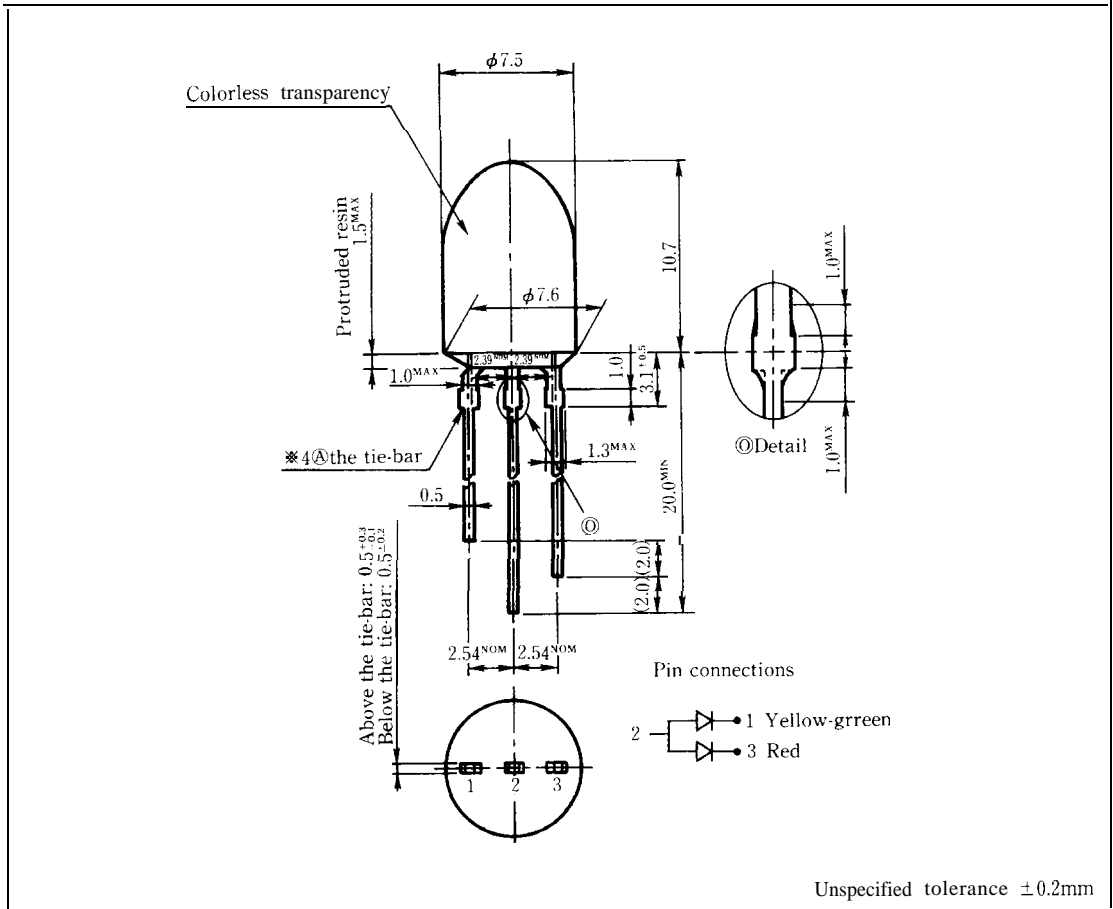
- Model No.  
 LT9555CU Yellow-green GaP  
 Red (Super- luminosity) GaAlAs/GaAlAs

### ■ Features

1. 47.5mm all resin mold
2. Common anode
3. Radiation color : Red, yellow-green and orange (mixed color)
4. High-density mounting (flangeless package)
5. Colorless transparency lens type
6. Wide viewing angle

### ■ Outline Dimensions

(Unit mm)



## LT9555CU

## ■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT9555CU				Unit
		Yellow-green	Red			
*1 Power dissipation	P	140	75			mW
*2 Continuous forward current	I <sub>F</sub>	50	30			mA
*3 Peak forward current	I <sub>FM</sub>	100	50			mA
Derating factor	DC	—	0.67	0.40		mA/°C
	Pulse		1.35	0.67		mA/°C
Reverse voltage	V <sub>R</sub>	5	4			v
Operating temperature	T <sub>opr</sub>	-30 to +85				°C
Storage temperature	T <sub>stg</sub>	-30 to +100				°C
*4 Soldering temperature	T <sub>sol</sub>	260(within 5 seconds)				°C

\*1 The value of power dissipation is specified under the condition that either yellow-green or red is lightened separately. When the both diodes of yellow-green and red are lightened simultaneously, the power dissipation of each diode should be less than the half of the value specified in this table.

\*2 Yellow-green : When lighting continuously, If shall be 30mA or less

\*3 Duty ratio = 1/10, Pulse width = 0.1ms

\*4 At the (A) position of outline dimensions

LT9555CU (Yellow-green/Red)

Electro-optical Characteristics

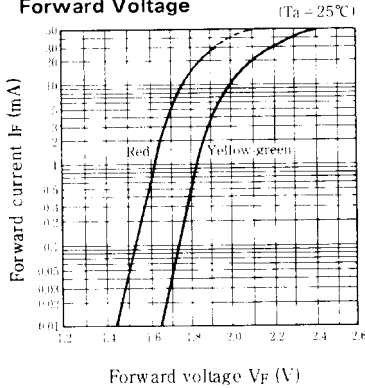
(Ta = 25°C)

Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V <sub>F</sub>	Yellow-green	I <sub>F</sub> = 20mA	—	2.1	2.8	V
		Red	I <sub>F</sub> = 20mA	—	1.85	2.5	
*5 Luminous intensity	I <sub>v</sub>	Yellow-green	I <sub>F</sub> = 20mA	40	100	—	mcd
		Red	I <sub>F</sub> = 20mA	125	300	—	
Peak emission wavelength	λ <sub>p</sub>	Yellow-green	I <sub>F</sub> = 20mA	—	565	—	nm
		Red	I <sub>F</sub> = 20mA	—	660	—	
Spectrum radiation bandwidth	Δλ	Yellow-green	I <sub>F</sub> = 20mA	—	30	—	nm
		Red	I <sub>F</sub> = 20mA	—	20	—	
Reverse current	I <sub>R</sub>	Yellow-green	V <sub>R</sub> = 4V	—	10	—	μA
		Red	V <sub>R</sub> = 3V	—	100	—	
Terminal capacitance	C <sub>t</sub>	Yellow-green	V = 0V, f = 1MHz	—	35	—	pF
		Red	V = 0V, f = 1MHz	—	25	—	
Response frequency	f <sub>c</sub>	Yellow-green	—	—	4	—	MHz
		Red	—	—	R	—	

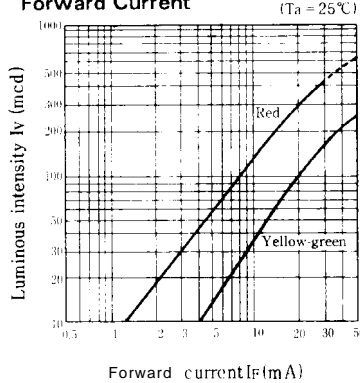
\*5 Tolerance: ±30%

Characteristics Diagrams

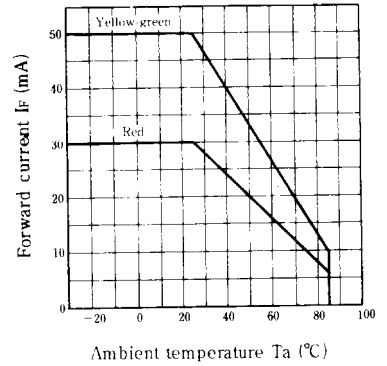
Forward Current vs. Forward Voltage



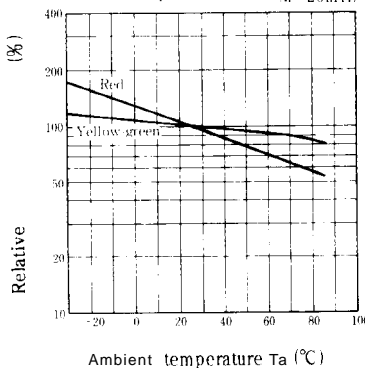
Luminous Intensity vs. Forward Current



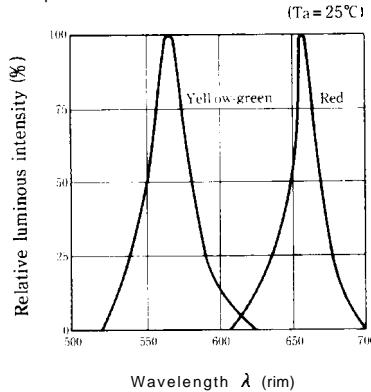
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature



Spectrum Distribution



Radiation Diagram

