

LT9570CU

φ 7.5mm Cylinder Type Common Anode Dichromatic LED Lamps

■ Model No.

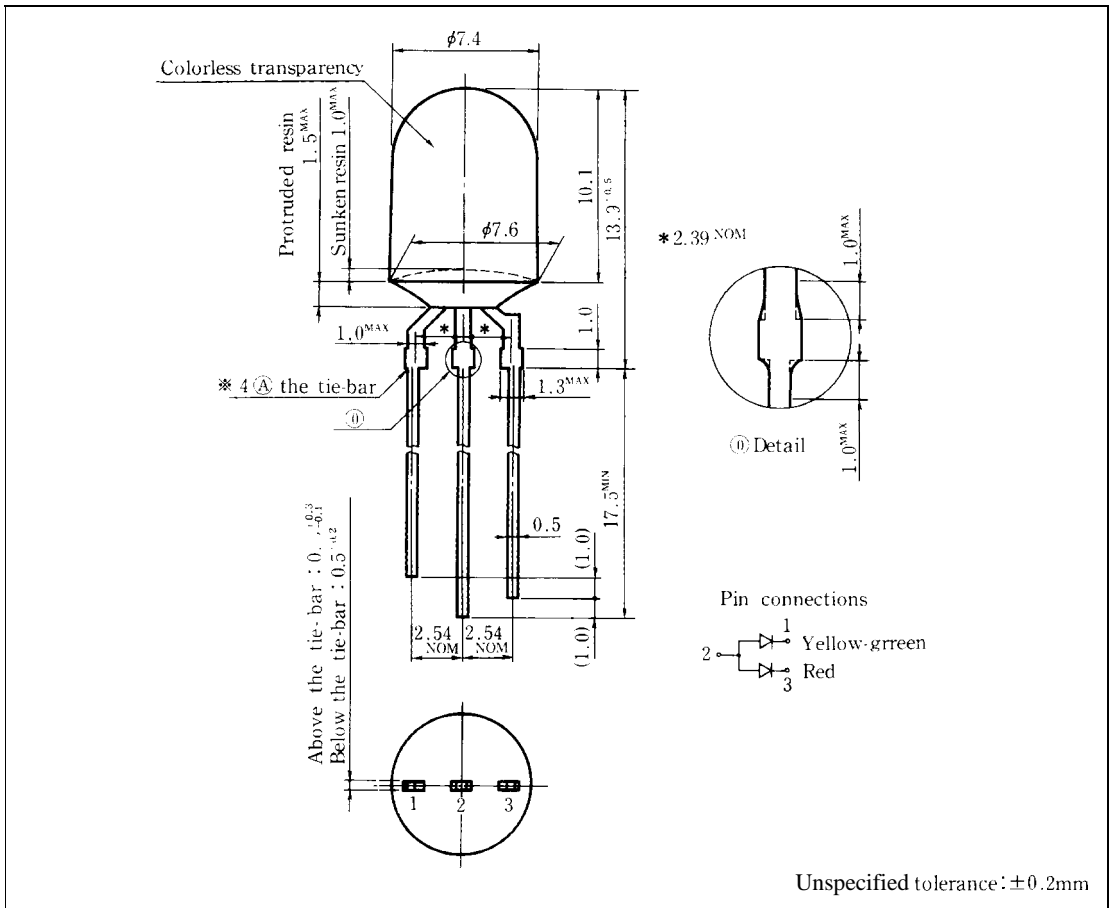
LT9570CU Yellow-green GaP
Red (Super-luminosity) GaAlAs/GaAlAs

■ Features

1. φ 7.5mm 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)



LT9570CU

■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT9570CU				Unit
		Yellow-green	Red			
※1 Power dissipation	P	140	75			mW
※2 Continuous forward current	I _F	50	30			mA
※3 Peak forward current	I _{FM}	100	50			mA
Derating factor	DC	—	0.67	0.40		mA/°C
	Pulse	—	1.34	0.67		mA/°C
Reverse voltage	V _R	5	4			v
Operating temperature	T _{opr}	-30 to +85				°C
Storage temperature	T _{stg}	-30 to +100				°C
※4 Soldering temperature	T _{sol}	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, I_F shall be 30mA or less

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

※4 At the (A) position of outline dimensions

LT9570CU (Yellow-green/Red)

■ Electro-optical Characteristics

(Ta = 25°C)

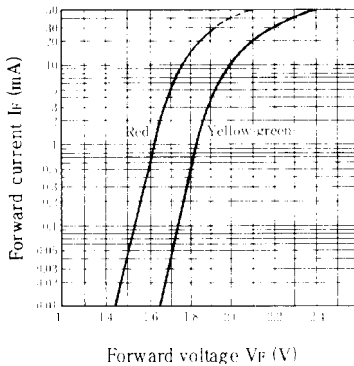
Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	Yellow-green	I _F = 20mA		2.1	2.8	V
		Red	I _F = 20mA	—	1.85	2.5	
*5 Luminous intensity	I _v	Yellow-green	I _F = 20mA	30	75		mcd
		Red	I _F = 20mA	100	250	—	
Peak emission wavelength	λ _p	Yellow-green	I _F = 20mA	—	565	—	nm
		Red	I _F = 20mA	—	660	—	
Spectrum radiation bandwidth	Δλ	Yellow-green	I _F = 20mA	—	30	—	nm
		Red	I _F = 20mA	—	20	—	
Reverse current	I _R	Yellow-green	V _R = 4V	—	—	10	μA
		Red	V _R = 3V	—	—	100	
Terminal capacitance	C _t	Yellow-green	V = 0V f = 1 MHz	—	35	—	pF
		Red	V = 0V f = 1 MHz	—	25	—	
Response frequency	f _c	Yellow-green	—	—	4	—	MHz
		Red	—	—	8	—	

*5 Tolerance: ±30%

■ Characteristics Diagrams

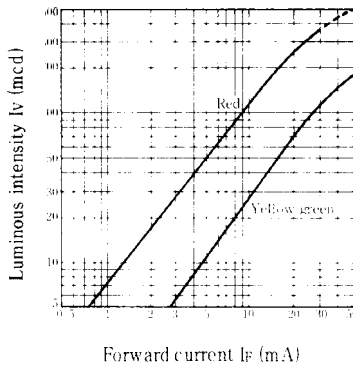
Forward Current vs. Forward Voltage

(Ta = 25°C)

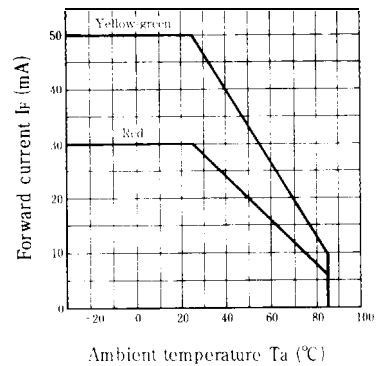


Luminous Intensity vs. Forward Current

(Ta = 25°C)

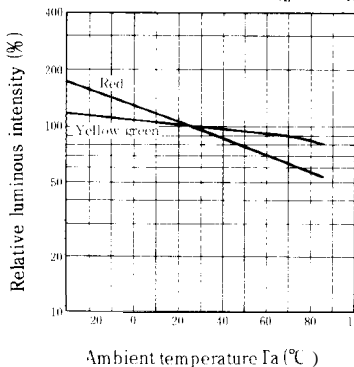


Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature

(I_F = 20mA)



Spectrum Distribution

(Ta = 25°C)

