

# LT9400ED

## Dichromatic LED Panel Displays

### Model No.

LT9400ED Yellow-green GaP  
Red GaAsP/GaP

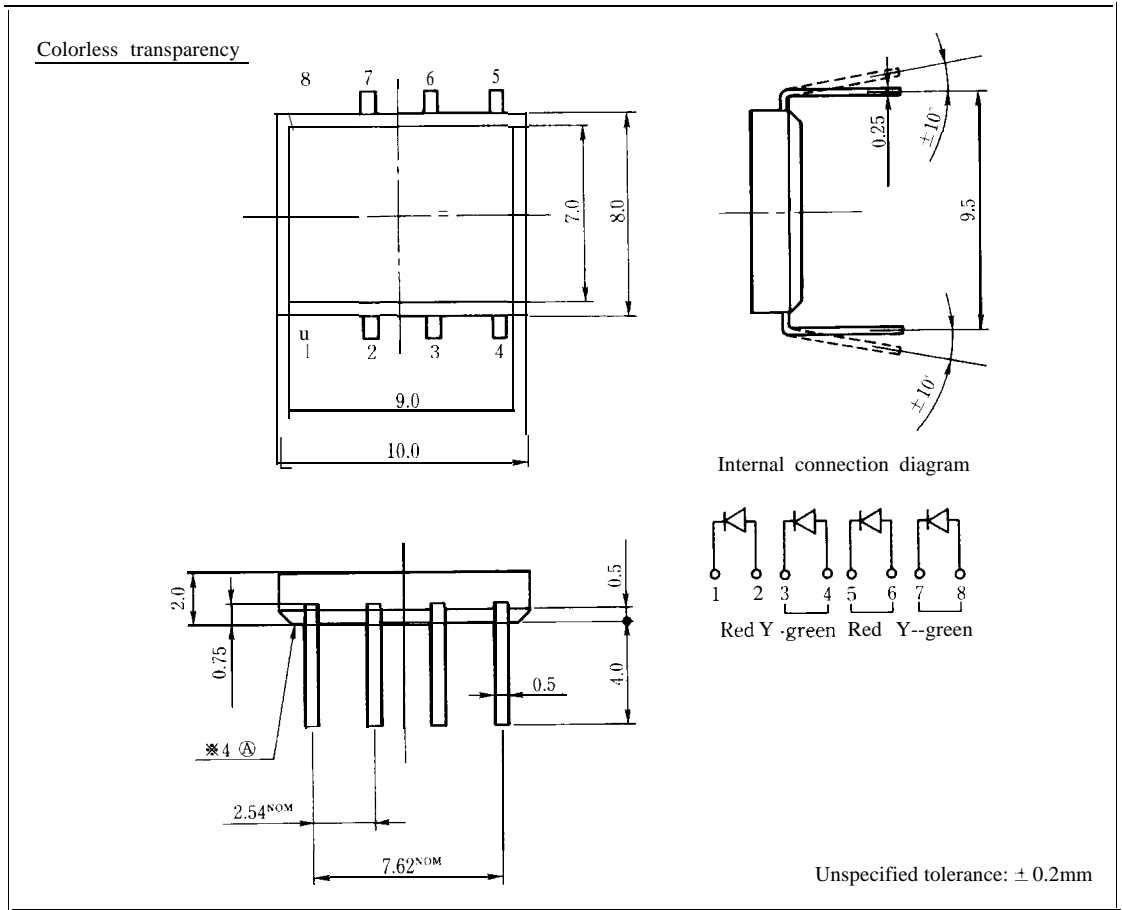
### Features

1. Radiation size 7.0X 9.0mm
2. Case mold type
3. Radiation color : Yellow-green, red and orange(mixed color)

### Outline Dimensions

(Unit : mm)

**4**



## LT9400ED

## ■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT9400ED				Unit
		Yellow-green	Red			
* <sup>1</sup> Power dissipation	P	168	168			mW
"continuous forward current	I <sub>F</sub>	30	30			mA
* <sup>2,*3</sup> Peak forward current	I <sub>FM</sub>	50	50			mA
* <sup>2,*3</sup> Derating factor	DC	—	0.55	0.55		nA/°C
	Pulse	—	0.91	0.91		nA/°C
Reverse voltage	V <sub>R</sub>	5				V
Operating temperature	T <sub>opr</sub>	-20 to +70				°C
Storage temperature	T <sub>stg</sub>	-30 to +80				°C
Soldering temperature	T <sub>sol</sub>	260(within 5 seconds)				°C

\* 1 Per Radiation color : 2chips

\* 2 Per chip

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

\* 4 At the position of 1.6 mm from (A) level of outline dimensions

**LT9400ED(Yellow-green/Red)**

**Electro-optical Characteristics**

(Ta=25°C)

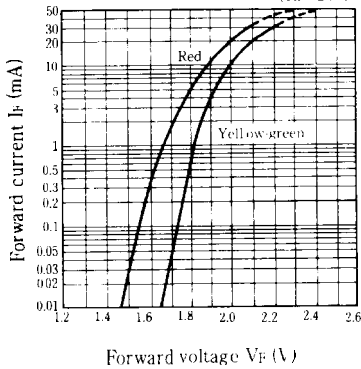
Parameter	Symbol	Radiation color	Conditions	MIN.	TYP.	MAX.	Unit
*2 Forward voltage	V <sub>F</sub>	Yellow-green	I <sub>k</sub> = 20mA		2.1	2.8	V
		Red	I <sub>F</sub> = 20mA		2.0	2.8	
*1.* Luminous intensity	I <sub>v</sub>	Yellow-green	I <sub>F</sub> = 20mA	20	43	—	mcd
		Red	I <sub>F</sub> = 20mA	12	35	—	
*2 Peak emission wavelength	λ <sub>P</sub>	Yellow-green	I <sub>k</sub> = 20mA		565		nm
		Red	I <sub>k</sub> = 20mA		635		
*2 Spectrum radiation bandwidth	Δλ	Yellow-green	I <sub>k</sub> = 20mA		30	—	nm
		Red	I <sub>F</sub> = 20mA		35	—	
*2 Reverse current	I <sub>R</sub>	Yellow-green	V <sub>R</sub> = -4V			10	μA
		Red	V <sub>V</sub> = 4V			10	
*2 Response frequency	f <sub>C</sub>	Yellow-green	-		4	—	MHz
		Red	-		4	—	

- \*1 Per Radiation color : 2chips
- \*2 Per chip
- \*5 Tolerance : ±30%

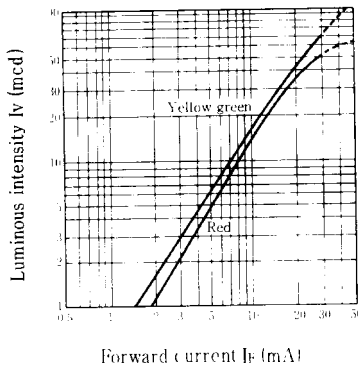
**4**

**Characteristics Diagrams**

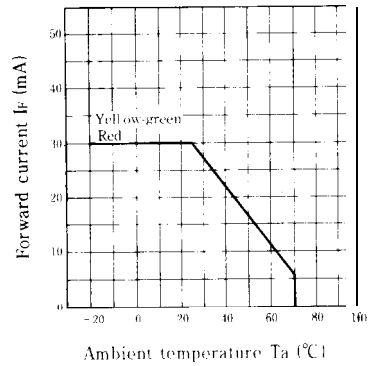
Forward Current vs. Forward Voltage (Ta = 25°C)



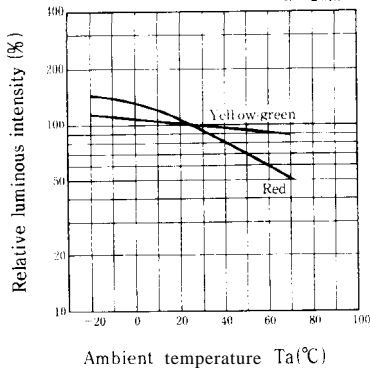
Luminous Intensity vs. Forward Current (Ta = 25°C)



Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature (If = 20mA)



Spectrum Distribution (Ta = 25°C)

