

LT9400□ Series

**Thin and Insert Molding
Package LED Panel Displays**

■ Model No.

LT9400D Red

GaAsP/GaP

LT9400E Yellow-green

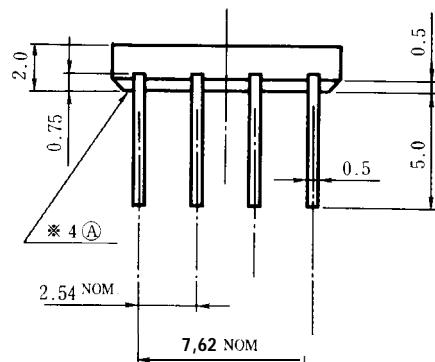
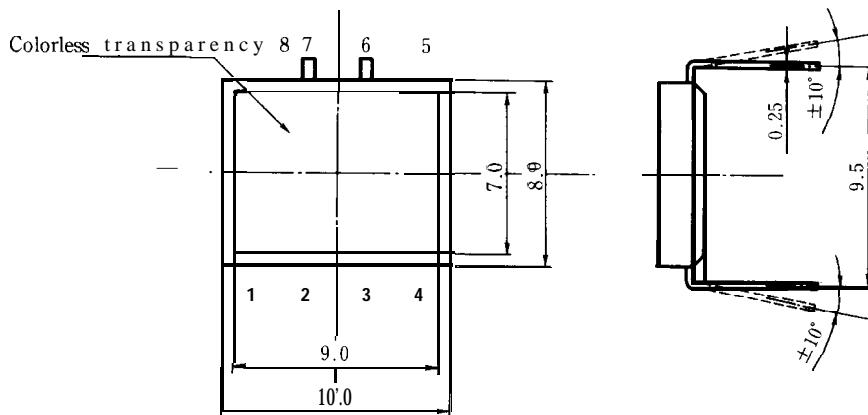
GaP

■ Features

1. Radiation size 7.0 × 9.0mm
2. Thin and insert molding package (2.0mm thickness)

■ Outline Dimensions

(Unit: mm)



Pin connections

- 1 → 2
- 3 → 4
- 5 → 6
- 7 → 8

Unspecified tolerance : ±0.2mm

LT9400□

■ Absolute Maximum Ratings ^{*1}

(Ta=25°C)

Parameter	Symbol	LT9400D					Unit
		LT9400E					
*2 Power dissipation	P	336					mW
Continuous forward current	I _F	30					mA
*3 Peak forward current	I _{FM}	50					mA
Denting factor	DC	—	0.55				nA/°C
	Pulse	—	0.91				nA/°C
Reverse voltage	V _R	5					V
Operating temperature	T _{opr}		-20	to	+70		°C
Storage temperature	T _{stg}		-30	to	+80		°C
*4 Soldering temperature	T _{sol}		260 (within 5 seconds)				°C

※1 Per chip

※2 Per lamp : 4 chips

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

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

LT9400D (Red)

■ Electro-optical Characteristics ^{*1}

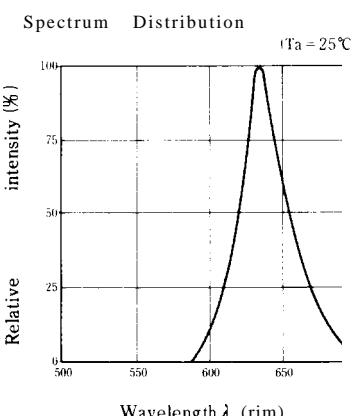
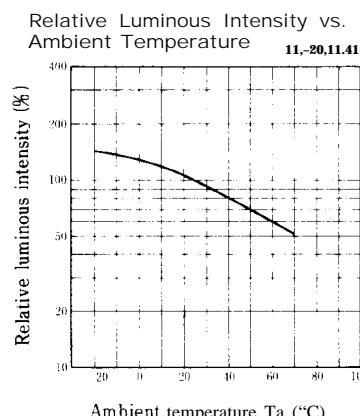
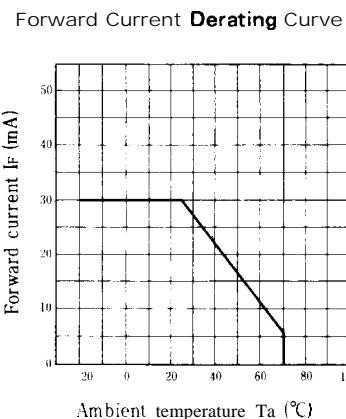
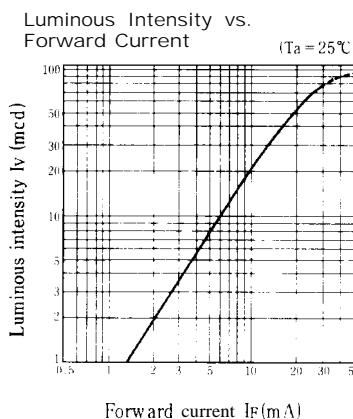
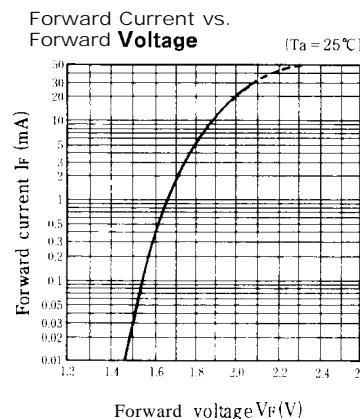
(Ta=25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX	Unit
Forward voltage	V_F	LT9400D	$I_F = 20\text{mA}$	—	2.0	2.8	V
				—	—	—	
*5 Luminous intensity	I_V	LT9400D	$I_F = 20\text{mA}$	20	52	—	mcd
				—	—	—	
Peak emission wavelength	λ_p	LT9400D	$I_F = 20\text{mA}$	—	635	—	nm
				—	—	—	
Spectrum radiation bandwidth	$\Delta \lambda$	LT9400D	$I_F = 20\text{mA}$	—	35	—	nm
				—	—	—	
Reverse current	I_R	LT9400D	$V_R = 4\text{V}$	—	—	10	μA
				—	—	—	
Response frequency	f_c	LT9400D	—	—	4	—	MHz
				—	—	—	

*1 Per chip

*5 Per lamp : 4 chips, Tolerance : $\pm 30\%$

■ Characteristics Diagrams



LT9400E (Yellow-green)

■ Electro-optical Characteristics ^{*1}

(Ta=25°C)

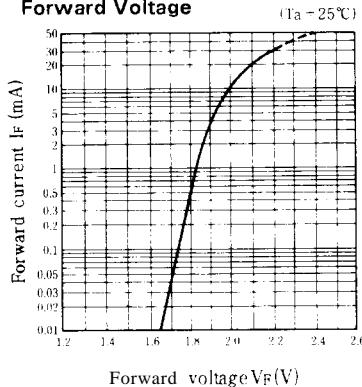
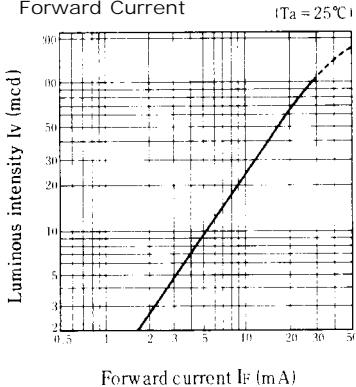
Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V_F	LT9400E	$I_F = 20\text{mA}$	—	2.1	2.8	V
				—	—	—	
※5 Luminous intensity	I_V	LT9400E	$I_F = 20\text{mA}$	32	70	—	mcd
				—	—	—	
Peak emission wavelength	λ_p	LT9400E	$I_F = 20\text{mA}$	—	565	—	nm
				—	—	—	
Spectrum radiation bandwidth	$\Delta \lambda$	LT9400E	$I_F = 20\text{mA}$	—	30	—	nm
				—	—	—	
Reverse current	I_R	LT9400E	$V_R = 4\text{V}$	—	—	10	μA
				—	—	—	
Response frequency	f_c	LT9400E	—	—	4	—	MHz
				—	—	—	

※1 Per chip

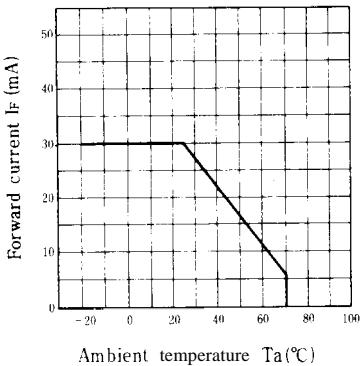
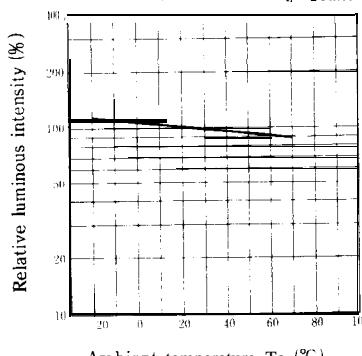
※5 Per lamp : 4 chips, Tolerance : $\pm 30\%$

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■ Characteristics Diagrams

Forward Current vs.
Forward VoltageLuminous Intensity vs.
Forward Current

Forward Current Derating Curve

Relative Luminous Intensity vs.
Ambient Temperature ($I_F = 20\text{mA}$)

Spectrum Distribution

