

LT9040□ Series

Case mold type
LED Panel Displays

■ Model No.

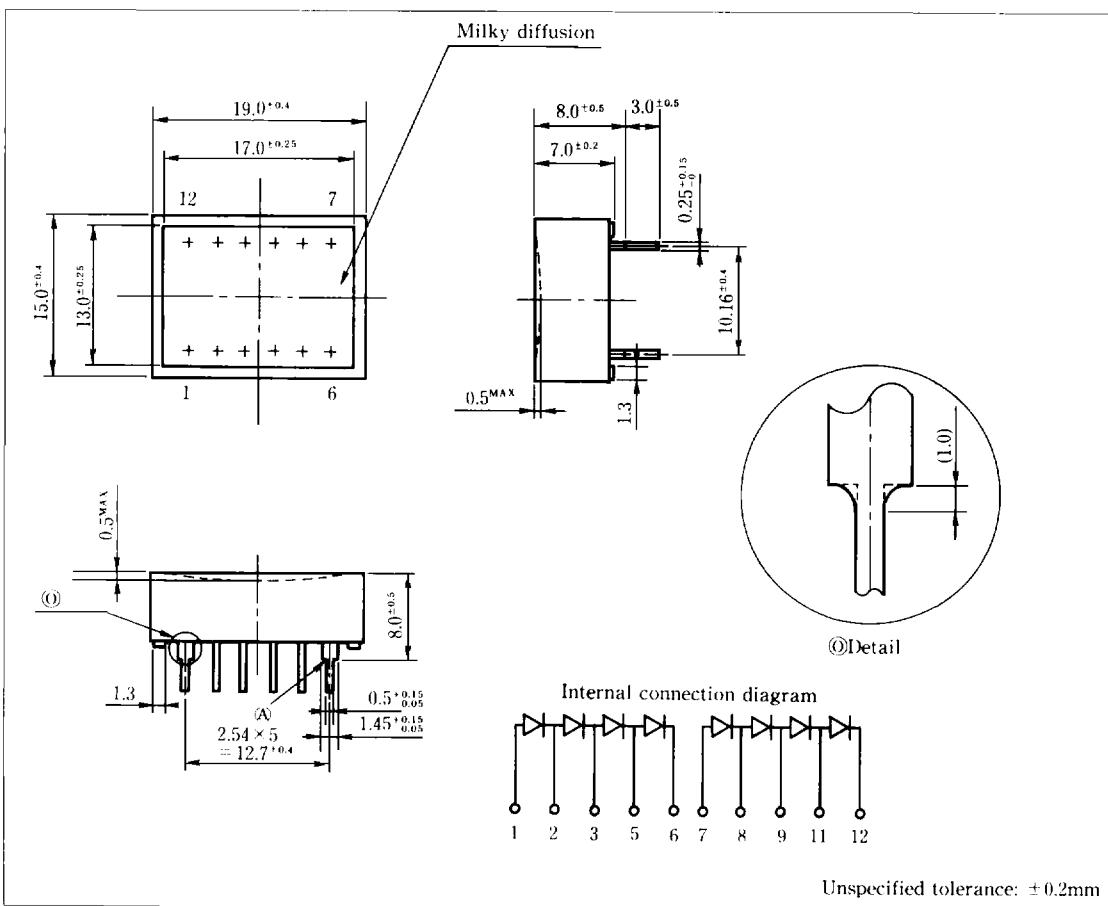
LT9040D	Red	GaAsP/GaP
LT9040H	Yellow	GaAsP/GaP
LT9040E	Yellow-green	GaP

■ Features

1. Radiation size 13.0×17.0
2. Case mold type

■ Outline Dimensions

(Unit : mm)



LT9040□**■Absolute Maximum Ratings*¹**

(Ta=25°C)

Parameter	Symbol	LT9040D					Unit
		LT9040H					
		LT9040E					
* ² Power dissipation	P	440					mW
* ¹ Continuous forward current	I _F	20					mA
Peak forward current	I _{FM}	--					mA
* ¹ Derating factor	DC	--	0.36				mA/°C
	Pulse	--	--				mA/°C
* ¹ Reverse voltage	V _R	5					V
Operating temperature	T _{opr}	-20 to +70					°C
Storage temperature	T _{stg}	-30 to +80					°C
* ³ Soldering temperature	T _{sol}	260(within 5 seconds)					°C

*¹ Per chip*² Per lamp : 8 chips*³ At the \oplus position of outline dimensions

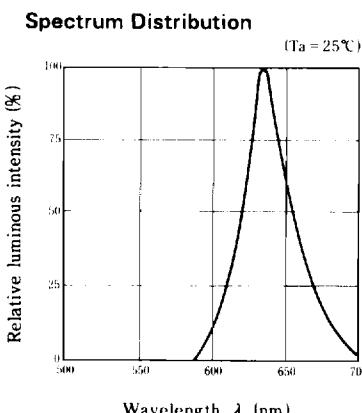
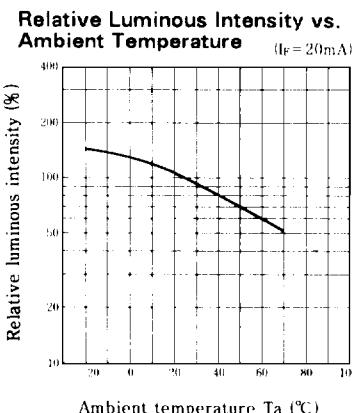
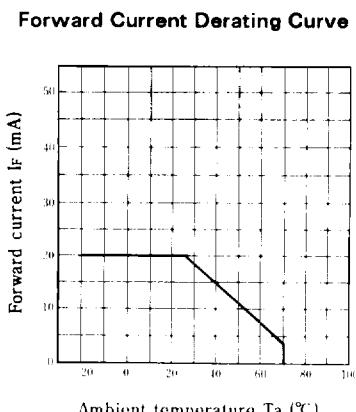
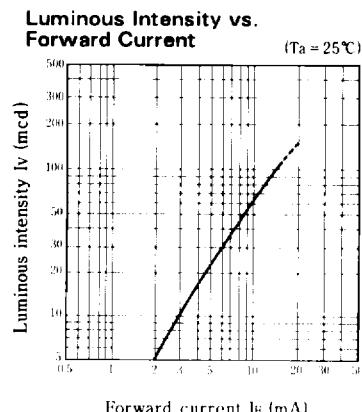
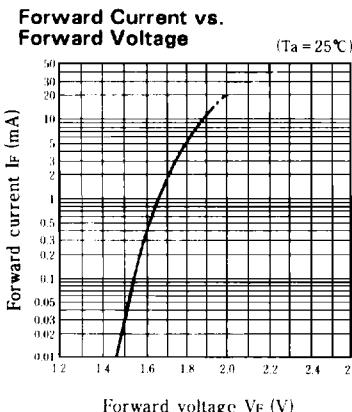
LT9040D(Red)**■Electro-optical Characteristics***

(Ta = 25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	LT9040D	I _F = 15mA	—	1.95	2.75	V
* ⁴ Luminous intensity	I _V	LT9040D	I _F = 15mA	35.5	112	—	mcd
Peak emission wavelength	λ _P	LT9040D	I _F = 15mA	—	635	—	nm
Spectrum radiation bandwidth	Δλ	LT9040D	I _F = 15mA	—	35	—	nm
Reverse current	I _R	LT9040D	V _R = 4V	—	—	10	μA
Response frequency	f _c	—	—	—	—	—	MHz

*1 Per chip

*4 Per lamp : 8 chips, Tolerance : ± 30%

■Characteristics Diagrams

LT9040H(Yellow)/LT9040E(Yellow-green)**■ Electro-optical Characteristics^{*1}**

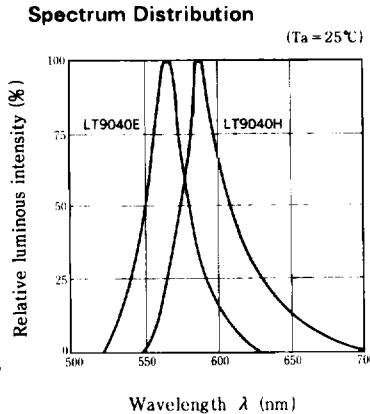
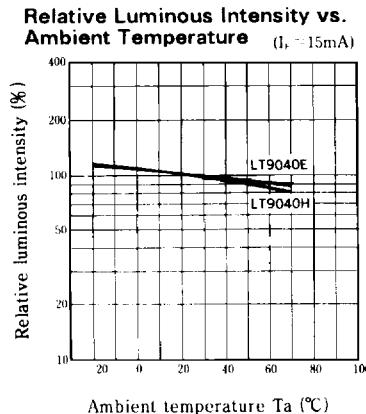
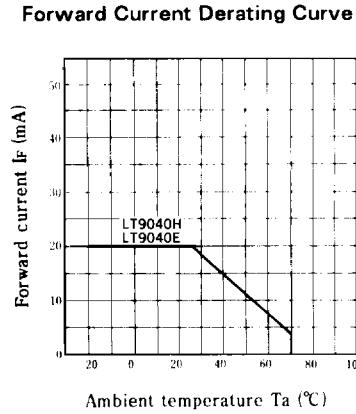
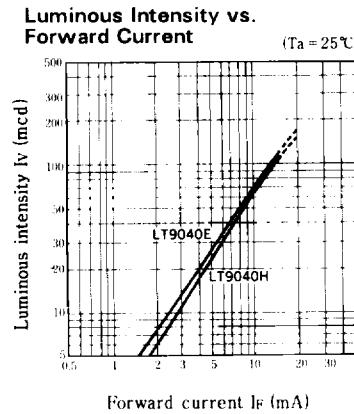
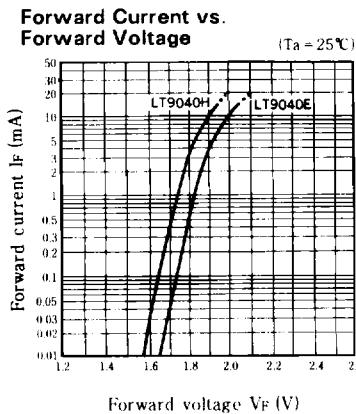
(Ta = 25°C)

Parameter	Symbol	Model No.	conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	LT9040H	I _F = 15mA	—	1.95	2.75	V
		LT9040E	I _F = 15mA	—	2.05	2.75	
*5 Luminous intensity	I _V	LT9040H	I _F = 15mA	35.5	112	—	mcd
		LT9040E	I _F = 15mA	60	126	—	
Peak emission wavelength	λ _p	LT9040H	I _F = 15mA	—	585	—	nm
		LT9040E	I _F = 15mA	—	565	—	
Spectrum radiation bandwidth	Δλ	LT9040H	I _F = 15mA	—	30	—	nm
		LT9040E	I _F = 15mA	—	30	—	
Reverse current	I _R	LT9040H	V _R = 4V	—	—	10	μA
		LT9040E	V _R = 4V	—	—	10	
Response frequency	f _c	—	—	—	—	—	MHz
		—	—	—	—	—	

*1 Per chip

*5 Per lamp : 8 chips, Tolerance : ±30%

4

■ Characteristics Diagrams**SHARP**