

# LT4660L

## Non-contact Type LED Array for Light Source

■ Model No.

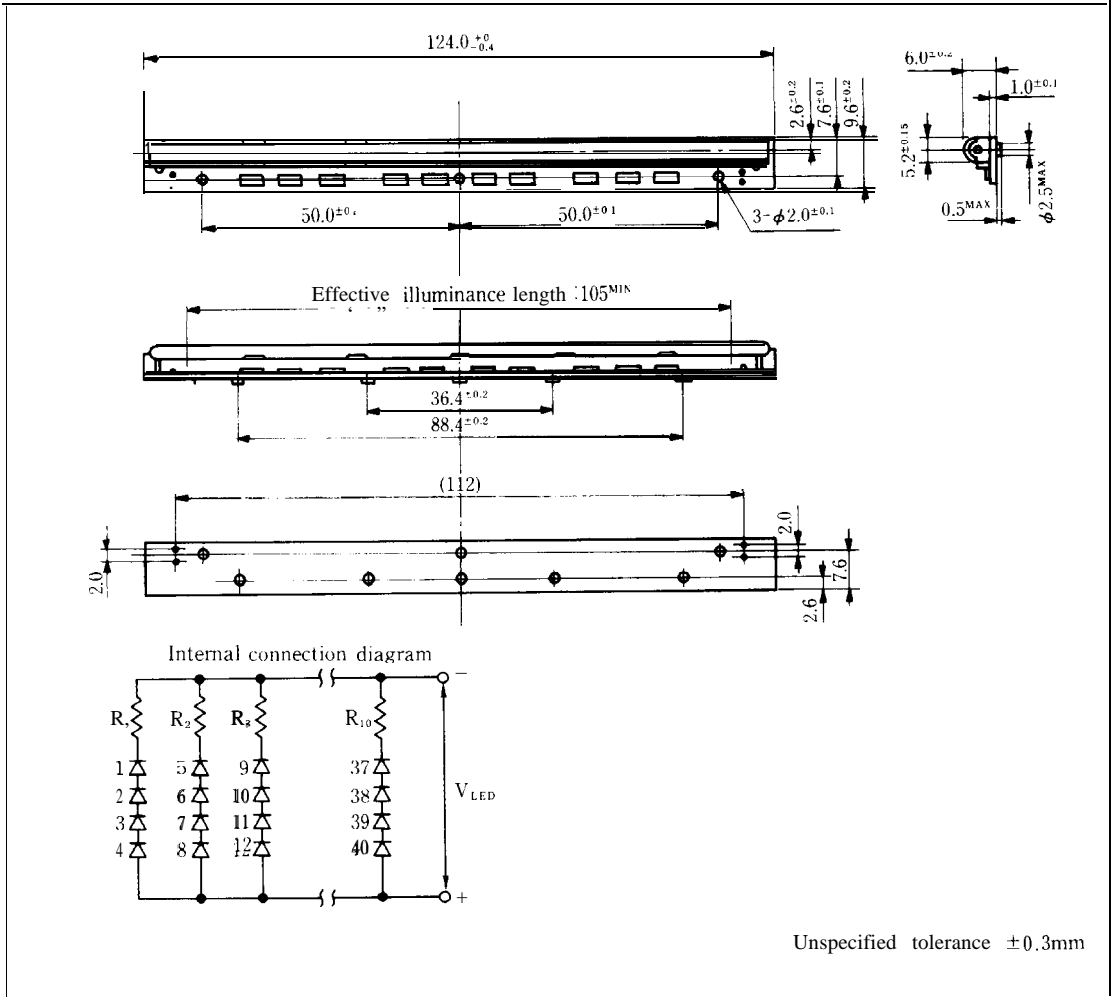
LT4660L      Red      GaAlAs/GaAs

■ Features

1. Effective illuminance length : 105mm
2. No. of LED chips : 40pcs.
3. Non-contact type with shrink lens
4. Diameter of cylindrical lens :  $\phi 4.0$ mm
5. Outline dimensions : 124.0mm (L)  $\times$  9.6mm (W)

■ Outline Dimensions

(Unit: mm)



Unspecified tolerance  $\pm 0.3$ mm

## ■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT4660L	Unit
Power dissipation	P	2.9	W
Forward voltage	V <sub>LED</sub>	13.0	v
Reverse voltage	V <sub>R</sub>	16.0	V
operating temperature	T <sub>opr</sub>	0 to +60	°C
Storage temperature	T <sub>stg</sub>	-40 to +75	°C

(Note) The period of continuous full dots illumination shall not exceed 30 seconds. For the purpose of heat dispersion, apply insulating grease to the rear of the substrate and attach it to a heat sink in the way that its whole surface contacts the heat sink.

## ■ Electro-optical Characteristics

(Ta = 25°C)

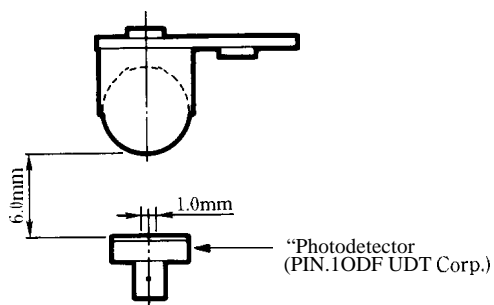
Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward current	I <sub>LED</sub>	LT4660L	V <sub>LED</sub> =12V	—	180	—	mA
Effective illuminance length	L	LT4660L	V <sub>LED</sub> =12V	105	—	—	mm
Illuminance power deviation	ΔEH	LT4660L	V <sub>LED</sub> =12V	*2			%
Effective illuminance width	ΔL	LT4660L	V <sub>LED</sub> =12V	—	1.0	—	mm
Peak emission wave length	λ <sub>p</sub>	LT4660L	V <sub>LED</sub> =12V	—	660	—	nm
Spectrum radiation bandwidth	Δλ	LT4660L	V <sub>LED</sub> =12V	—	20	—	nm
Illuminance	EL	LT4660L	V <sub>LED</sub> =12V	*2			μW/cm <sup>2</sup>
Response frequency	f <sub>c</sub>	LT4660L	—	—	8	—	MHz

\*1 Measuring method is specified in the next page.

\*2 See "Illuminance Distribution Characteristics" in the next page

\*3 Value obtained within 30 seconds after lightening.

■ Measuring Method (Ta= 25-C, within 30 seconds after lightening)

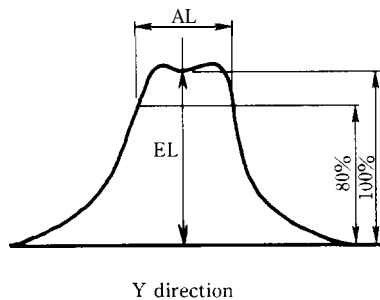
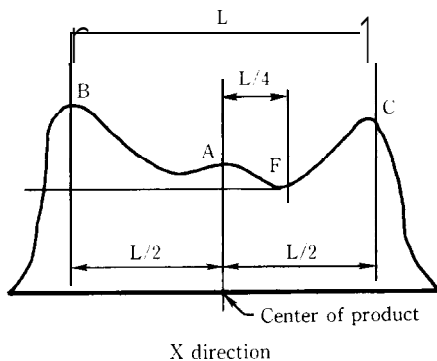


\* Slit size of photodetector : 1.0x 1.0mm<sup>2</sup>

■ Illuminance Distribution Characteristics

• Effective illuminance length: L

• Effective illuminance width: AL

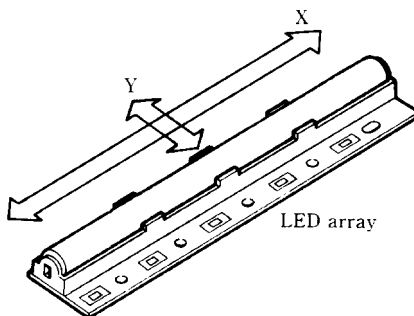


• Illuminance power deviation: AEH

$$AEH, \frac{A-F}{A+F} \times 100 < +15\%$$

$$\Delta EH_2 = 1.30 < \frac{B}{A} < 2.38$$

$$\Delta EH_3 = 1.30 < \frac{C}{A} < 2.38$$



The minimum value of EL in effective illuminance length is 1,000μW 'cm'.

(Note) The value of A, B, C and F is EL value at each positions.

(F value is a lower value at L/4 away on both sides from the center of product.)