LT4607E

Non-contact Type LED Array for Light Source
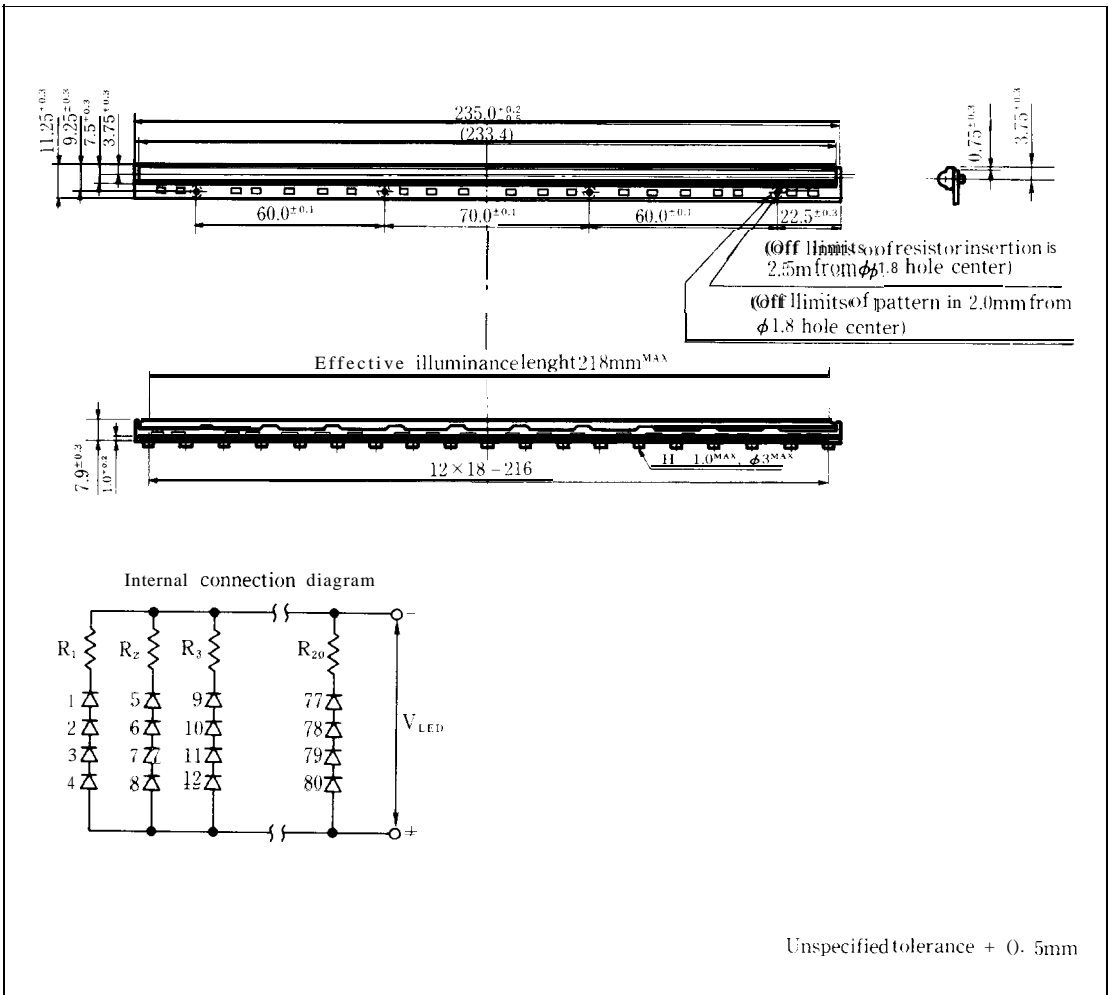
■ Model No.

LT4607E   Yellow-green   GaP

■ Features

1. Effective illuminance length : 218mm
2. No. of LED chips : 80pcs.
3. Non-contact type with shrink lens
4. Diameter of cylindrical lens : ϕ6.0mm
5. Outline dimensions : 235.0mm (L) ×11.25mm (W)

■ Outline Dimensions

(Unit: mm)

Effective illuminance lenght 218mm^{MAX}

(Off limits of resistor insertion is 2.5m from ϕ1.8 hole center)

(Off limits of pattern in 2.0mm from ϕ1.8 hole center)

Internal connection diagram

Unspecified tolerance + 0. 5mm

■ Absolute Maximum Ratings
$(Ta = 25℃)$

Parameter	Symbol	LT4607E		Unit
Power dissipation	P	7.3		W
Forward voltage	V_{LED}	13.0		V
Reverse voltage	V_R	16.0		V
Operating temperature	T_{opr}	O to +60		℃
Storage temperature	T_{stg}	−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
$(Ta = 25℃)$

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward current	I_{LED}	LT4607E	$V_{LED} = 12V$	—	460	–	mA
※1 Effective illuminance length	L	LT4607E	$V_{LED} = 12V$	218	–	–	mm
※1 Illuminance power deviation	ΔEH	LT4607E	$V_{LED} = 12V$	—	–	15	%
※1 Effective illuminance width	ΔL	LT4607E	$V_{LED} = 12V$	—	3.0	–	mm
Peak emission wave length	λ_p	LT4607E	$V_{LED} = 12V$	—	565	–	nm
Spectrum radiation bandwidth	$\Delta \lambda$	LT4607E	$V_{LED} = 12V$	—	30	–	nm
※1 ※2 Illuminance	EL	LT4607E	$V_{LED} = 12V$	980	–	–	Lux
Response frequency	f_c	LT4607E	–	—	4	–	MHz

※1 Measuring method is specified in the next page,
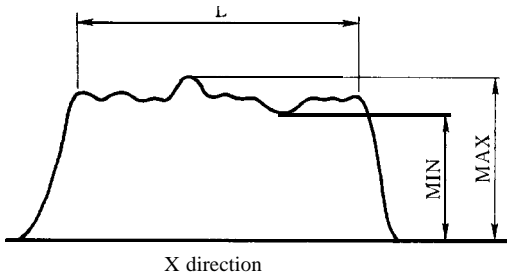※2 Value obtained within 30 seconds after lightening.

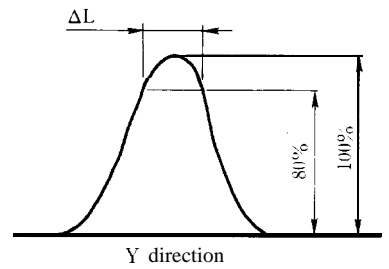■ **Measuring Method** (Ta = 25°C, Within 30 seconds after lightening.)

*Photodetector
(S2387-16R Hamamatsu Corp.)
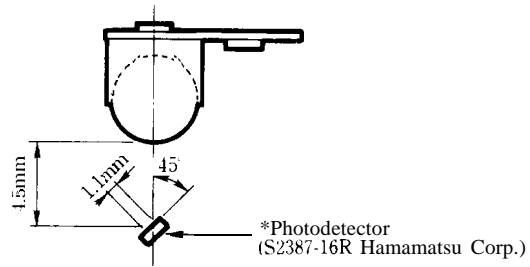
∗ Slit size of photodetector : 1.1 x 4.9mm

■ **Illuminance Distribution Characteristics**

・ **Effective illuminance length: L**

X direction

・ **Effective illuminance width: AL**

Y direction

・ **Illuminance power deviation: AEH**

$$\Delta EH = \frac{MAX - MIN}{MAX + MIN} \times 100$$

LED array