

# LT4655 □ Series

## Contact Type LED Array for Light Source

■ Model No.

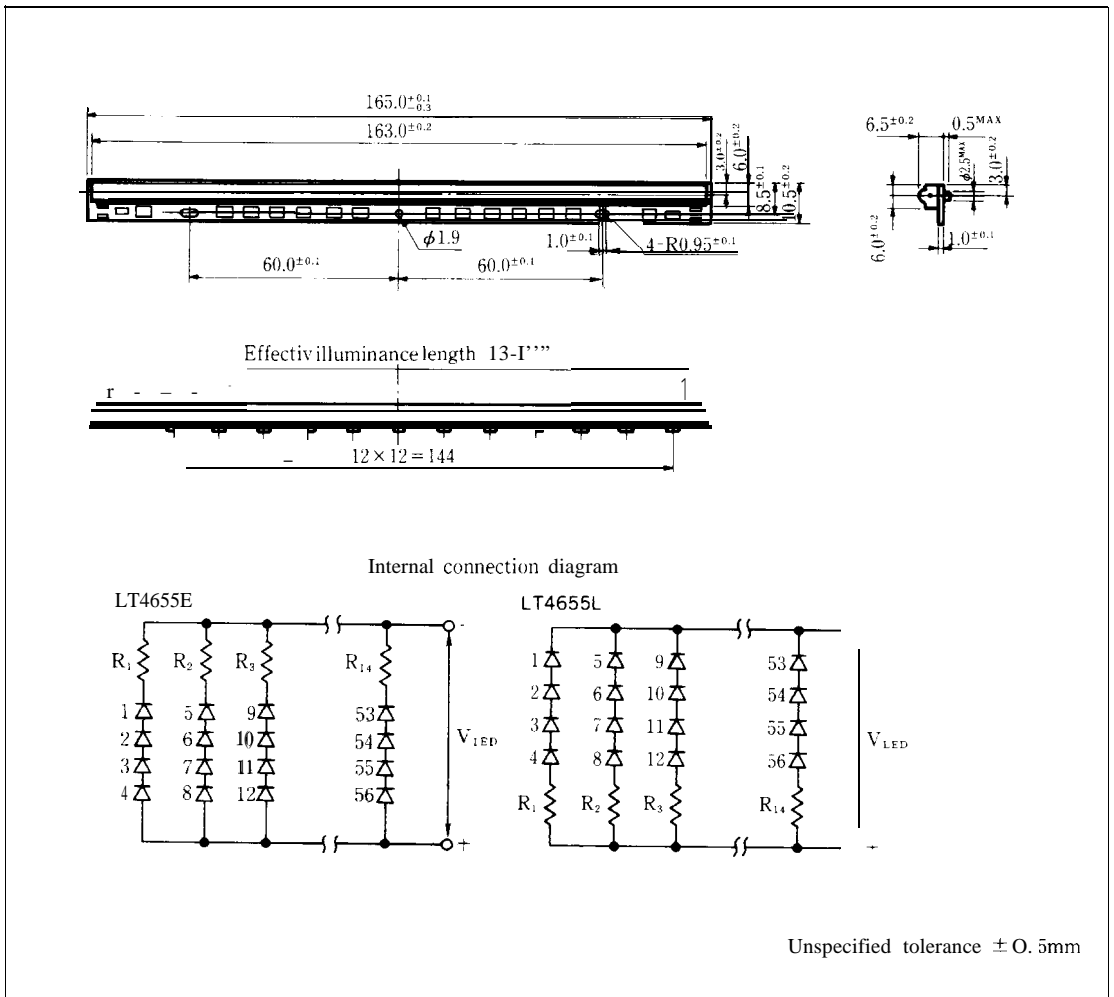
LT4655E	Yellow-green	GaP
LT4655L	Red	GaAlAs/GaAs

■ Features

1. Effective illuminance length : 154mm
2. No. of LED chips : 56pcs.
3. Contact type
4. Diameter of shrink lens :  $\phi 4.5\text{mm}$
5. Outline dimensions : 165.0mm (L)  $\times$  10.5mm (W)

■ Outline Dimensions

(Unit mm)



## ■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT4655E	LT4655L	Unit
Power dissipation	P	5.9	4.5	W
Forward voltage	V <sub>LED</sub>	130	13.0	V
Reverse voltage	V <sub>R</sub>	16.0	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

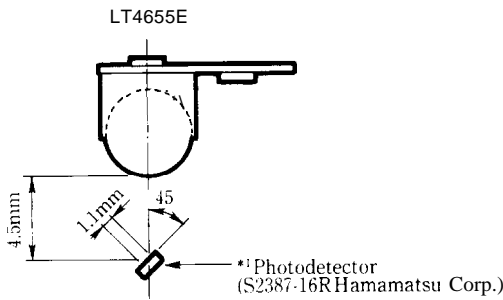
(Ta = 25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward current	I <sub>LED</sub>	LT4655E	V <sub>LED</sub> = 12V	—	322	—	mA
		LT4655L	V <sub>LED</sub> = 12V	—	280	—	
※1 Effective illuminance length	L	LT4655E	V <sub>LED</sub> = 12V	154	—	—	'm
		LT4655L	V <sub>LED</sub> = 12V	154	—	—	
※1 Illuminance power deviation	ΔEH	LT4655E	V <sub>LED</sub> = 12V	—	—	15	%
		LT4655L	V <sub>LED</sub> = 12V	—	—	15	
※1 Effective illuminance width	ΔL	LT4655E	V <sub>LED</sub> = 12V	—	1.2	—	'm
		LT4655L	V <sub>LED</sub> = 12V	—	1.0	—	
Peak emission wave length	λ <sub>p</sub>	LT4655E	V <sub>LED</sub> = 12V	—	565	—	'm
		LT4655L	V <sub>LED</sub> = 12V	—	660	—	
Spectrum radiation bandwidth	Δλ	LT4655E	V <sub>LED</sub> = 12V	—	30	—	'm
		LT4655L	V <sub>LED</sub> = 12V	—	20	—	
※1 ※2 Illuminance	EL	LT4655E	V <sub>LED</sub> = 12V	1,500	—	—	Lux
		LT4655L	V <sub>LED</sub> = 12V	2,000	—	—	μW/cm <sup>2</sup>
Response frequency	f <sub>c</sub>	LT4655E	—	—	4	—	MHz
		LT4655L	—	—	8	—	

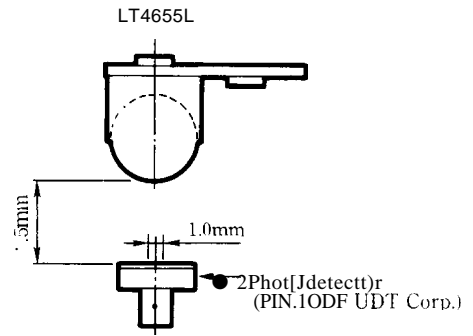
※ 1 Measuring method is specified in the next page.

※ 2 Value obtained within 30 seconds after lightening

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



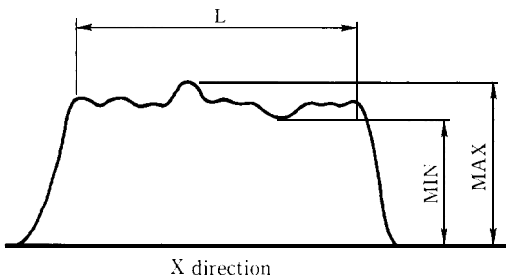
\* 1 Slit size of photodetector: 1.1 × 4.9mm



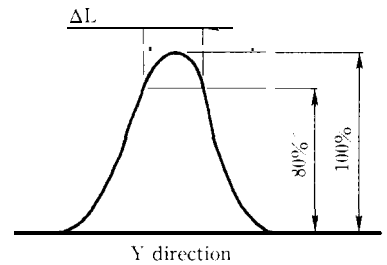
\* 2 Slit size of photodetector :1.0×1.0mm<sup>2</sup>

■ Light Distribution Characteristics

• Effective illuminance length: L



• Effective illuminance width: ΔL



• Illuminance power deviation: AEH

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

