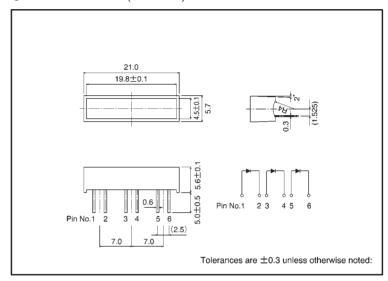
Large flat displays LD-701 Series

The LD-701 series were designed in response to the need for large, flat displays. These are three-chip, flat displays with high luminance.

Features

- 1) Three independent chip elements.
- 2) Large 4.5 \times 19.8 mm emission area.
- 3) Thin outer casing, multiple units can be coupled together.
- 4) Four colors: red, orange, yellow and green.

External dimensions (Units: mm)



Selection guide

Emitting color	Red	Orange	Yellow	Green	
Туре	LD-701VR	LD-701DU	LD-701YY	LD-701MG	

● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Red	LD-701VR	Orange	LD-701DU	Yellow	LD-701YY	Green	LD-701MG	Unit
Power dissipation	P□	180		180		180		225		mW
Forward current	lF		20		20		20		25	mA
Peak forward current	I FP		60*		60*	* 60*		60*		mA
Reverse voltage	VR		3	3		3		3		٧
Operating temperature	Topr	−25~+85						Ĉ		
Storage temperature	Tstg		-30 ∼+100						Ĉ	

^{*} Pulse width 1ms duty 1 / 5

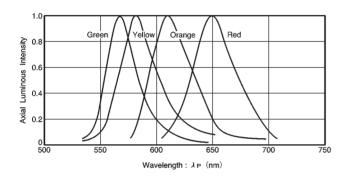
LED displays LD-701 Series

●Electrical and optical characteristics (Ta = 25°C)

Parameter Sym	Cumbal	Conditions		Red		Orange		Yellow			Green			Unit	
	Syllibol	mbol Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Offic
Forward voltage	VF	I=10mA	_	2.0	3.0	_	2.0	3.0	_	2.1	3.0	_	2.1	3.0	٧
Reverse current	lR	V _R =3V	_	_	10	_	-	10	_	_	10	_	-	10	μА
Peak wavelength	λp	I=10mA	_	650	_	_	610	_	_	585	_	_	563	_	nm
Spectral line half width	Δλ	I=10mA	_	40	_	_	40	_	_	40	_	_	40	_	nm

Electrical and optical values are guaranteed values per element.

Luminous intensity vs. wavelength



Luminous intensity

Color	Туре	Min.	Тур.	Max.	Unit	
Red	LD-701VR	3.6	10	_	mcd	
Orange	LD-701DU	3.6	10	_	mcd	
Yellow	LD-701YY	2.2	6.3	_	mcd	
Green	LD-701MG	3.6	10	_	mcd	

Note 1: Measured at IF = 10mA

Note 2: Current passes through all elements.

Operation notes

When forming leads, the bend should be at least 2 mm from the base of the package. Solder after forming the leads, and ensure that the inside of the LED is not subjected to mechanical stress while it is hot.