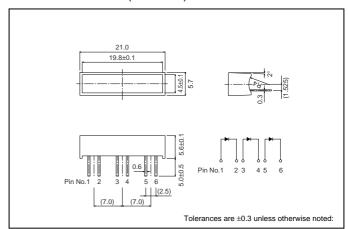
Large flat displays LD-701 Series

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 x 19.8 mm emission area.
- 3) Thin outer casing, multiple units can be coupled together.
- 4) Four colors are available: 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	

^{*}Order-based production.

● 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	IFP		60*		60* 60*		60*		mA	
Reverse voltage	VR		3		3		3		3	V
Operating temperature	Topr	-25~+75							°C	
Storage temperature	Tstg		-30~+85						°C	

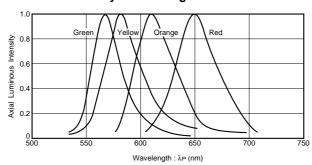
st Pulse width 1ms duty 1 / 5

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

Parameter Symbol	Cumbal	h - 1	Red		Orange		Yellow			Green			I Imit		
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit	
Forward voltage	VF	I _F = 10mA	-	2.0	3.0	-	2.0	3.0	-	2.1	3.0	-	2.1	3.0	V
Reverse current	lR	$V_R = 3V$	_	_	10	-	_	10	_	_	10	-	_	10	μΑ
Peak wavelength	λР	I _F = 10mA	-	650	-	-	610	_	-	585	_	-	563	_	nm
Spectral line half width	Δλ	I _F = 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 2mm 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.