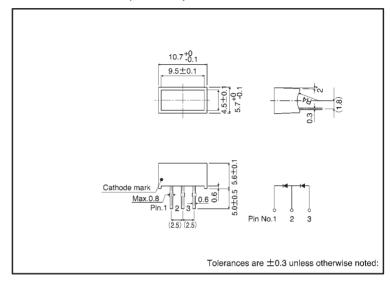
Flat displays LD-001 Series

The LD-001 series were designed in response to the need for medium-sized, flat displays. These are two-chip, flat displays with high luminance.

Features

- 1) 4.5×9.5 mm planar emission from two chips connected in series.
- 2) High luminance, uniform emission.
- 3) Four colors: red, orange, yellow and green.

External dimensions (Units: mm)



Selection guide

Emitting color	Red	Orange	Yellow	Green	
Туре	LD-001VR	LD-001DU	LD-001YY	LD-001MG	

● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Red LD-001VR	Orange LD-001DU	Yellow LD-001YY	Green LD-001MG	Unit		
Power dissipation	P□	120	120	120	150	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	٧		
Operating temperature	Topr	−25~+75						
Storage temperature	Tstg	−30~ +85						

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

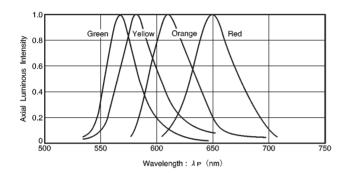
LED displays LD-001 Series

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

Parameter Symbol	Cumbal	al Canditiana	Red		Orange		Yellow		Green		Unit				
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Offic	
Forward voltage	VF	I=10mA	_	2.0	2.8	_	2.0	2.8	_	2.1	2.8	_	2.1	2.8	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 segment.

Luminous intensity vs. wavelength



Luminous intensity

Color	Туре	Min.	Тур.	Max.	Unit
Red	LD-001VR	2.2	6.3	_	mcd
Orange	LD-001DU	2.2	6.3	_	mcd
Yellow	LD-001YY	1.4	4.0	_	mcd
Green	LD-001MG	3.6	10	_	mcd

Note 1: Measured at IF = 10mA

Note 2: Current passes through 2 elements in series.

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.