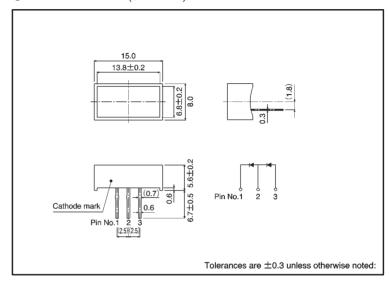
Flat displays LD-603 Series

The LD-603 series were designed in response to the need for large, flat displays. These are two-chip, flat displays with high luminance.

Features

- 1) 6.8×13.8 mm planar emission from two chips connected in series.
- 2) High luminance, uniform planar emission.
- 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-603VR	LD-603DU	LD-603YY	LD-603MG	

● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Red	LD-603VR	Orange	LD-603DU	Yellow	LD-603YY	Green	LD-603MG	Unit
Power dissipation	P□	120		120			120	150		mW
Forward current	lF	20		20			20		mA	
Peak forward current	IFP	60*		60*		60*		60*		mA
Reverse voltage	VR	3		3		3		3		V
Operating temperature	Topr		−25~+75							Ĉ
Storage temperature	Tstg		−30~ +85						Ĉ	

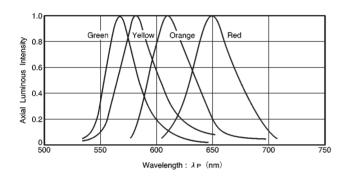
^{*} Pulse width 1ms duty 1 / 5

LED displays LD-603 Series

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

Parameter Symbol	Cumbal		Red		Orange		Yellow			Green			Unit		
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Мах.	Min.	Тур.	Max.	Min.	Тур.	Max.	Offic	
Forward voltage	VF	I=10mA	_	4.0	5.6	_	4.0	5.6	_	4.2	5.6	_	4.2	5.6	٧
Reverse current	lR	V _R =3V	_	_	10	_	_	10	-	_	10	_	_	10	μΑ
Peak wavelength	λР	I=10mA	_	650	_	_	610	_	_	585	_	_	563	_	nm
Spectral line half width	Δλ	I=10mA	_	40	_	_	40	_	_	40	_	_	40	_	nm

Luminous intensity vs. wavelength



Luminous intensity

Color	Туре	Min.	Тур.	Max.	Unit	
Red	LD-603VR	1.4	4.0	_	mcd	
Orange	LD-603DU	2.2	6.3	_	mcd	
Yellow	LD-603YY	2.2	6.3	_	mcd	
Green	LD-603MG	2.2	6.3	_	mcd	

Note 1: Measured at IF = 10mA

Note 2: Current passes through 2 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.