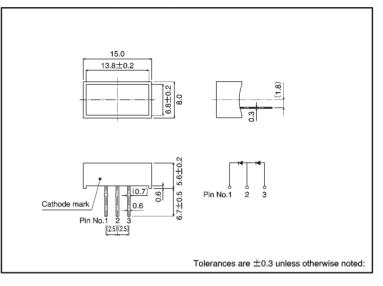
Flat displays LD-603 Series

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.



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	PD	120		120			120	150		mW
Forward current	lF		20	20			20		mA	
Peak forward current	FP		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	

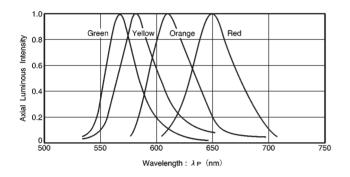
* Pulse width 1ms duty 1 / 5

•External dimensions (Units: mm)

Parameter Symbol	Sumbol	Conditions	Red		Orange			Yellow			Green			Unit	
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit	
Forward voltage	VF	I⊧=10mA	_	4.0	5.6	-	4.0	5.6	—	4.2	5.6	-	4.2	5.6	V
Reverse current	IR	V _R =3V	_	_	10	-	_	10	_	_	10	_	_	10	μA
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 characteristics (Ta = 25° C)

•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.

