

LD-603 series

Flat display, 2-chip, single element

The LD-603 series is a two chip high-brightness, large-sized flat display.

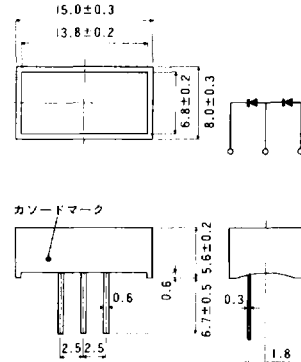
Features

- 6.8 × 13.8 mm flat light, external dimensions 8.0 × 15.0 × 5.6 mm
- consists of two series-connected LEDs
- available in red, orange, yellow, and green
- package has black-painted surface, segments are tinted
- thin outer casing, multiple units can be coupled together
- high brightness, uniform flat light emission

Applications

- panel displays
- large level meters
- character illumination
- channel displays

Dimensions (Units : mm)



Note: When forming leads, bend must be at least 2 mm away from body to avoid damaging the chip connectors.

Selection guide

Part no.	LD-603VR	LD-603DU	LD-603YY	LD-603MG
Color & wavelength	Red, 650 nm	Orange, 610 nm	Yellow, 585 nm	Green, 563nm
Availability	semi-standard	semi-standard	semi-standard	semi-standard

LD-603 series LED flat displays

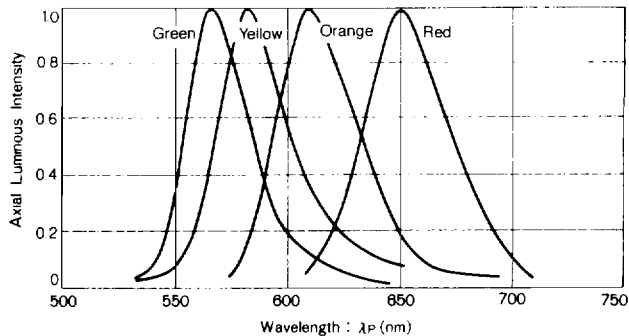
Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits		Unit	Conditions
		Red, orange, yellow	Green		
Power dissipation	P_d	120	150	mW	
Forward current	I_F	20	25	mA	
Peak forward current	I_{FP}	60		mA	Pulse width 1 ms, duty 20%
Reverse voltage	V_R	3		V	
Operating temperature	T_{opr}	-25 ~ +75		$^\circ\text{C}$	
Storage temperature	T_{stg}	-30 ~ +85		$^\circ\text{C}$	

Electro-optical characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Red		Orange		Yellow		Green		Unit	Conditions
		Typ	Max	Typ	Max	Typ	Max	Typ	Max		
Forward voltage	V_F	4.0	5.6	4.0	5.6	4.2	5.6	4.2	5.6	V	$I_F = 10\text{ mA}$
Reverse current	I_R		10		10		10		10	μA	$V_R = 3\text{ V}$
Peak wavelength	λ_p	650		610		585		563		nm	$I_F = 10\text{ mA}$
Spectral half-width	$\Delta\lambda$	40		40		40		40		nm	$I_F = 10\text{ mA}$

Luminous intensity



Part no.	Color	Min	Typ	Max	Unit	Conditions
LD-603VR	Red	1.4	4.0		mcd	$I_F = 10\text{ mA}$, both elements lit
LD-603DU	Orange	2.2	6.3		mcd	$I_F = 10\text{ mA}$, both elements lit
LD-603YY	Yellow	2.2	6.3		mcd	$I_F = 10\text{ mA}$, both elements lit
LD-603MG	Green	2.2	6.3		mcd	$I_F = 10\text{ mA}$, both elements lit