

Flat displays

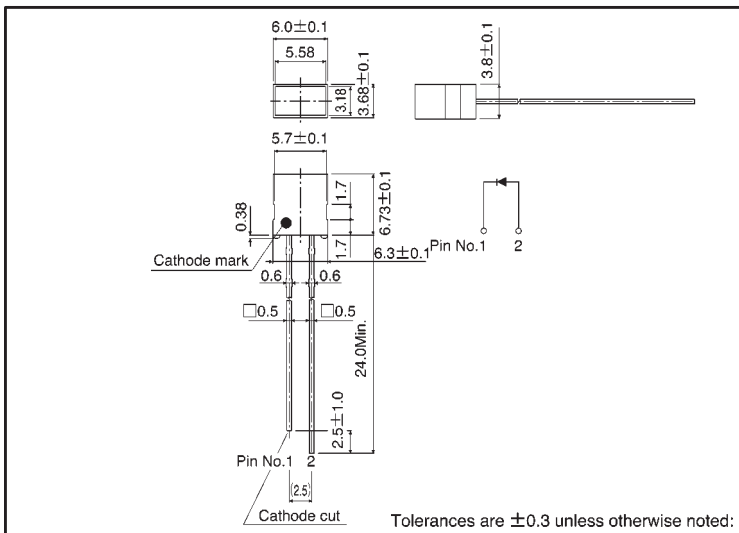
LD-201 Series

The LD-201 series were designed in response to the need for small, flat displays. These are single-chip, flat displays with high luminance.

●Features

- 1) Planar emission from a single chip.
- 2) Thin outer casing, multiple units can be coupled together.
- 3) Long leads are suitable for a wide range of mounting options.

●External dimensions (Units: mm)



●Selection guide

Emitting color	Red	Orange	Yellow	Green
Type	LD-201VR	LD-201DU	LD-201YY	LD-201MG

●Absolute maximum ratings (Ta = 25°C)

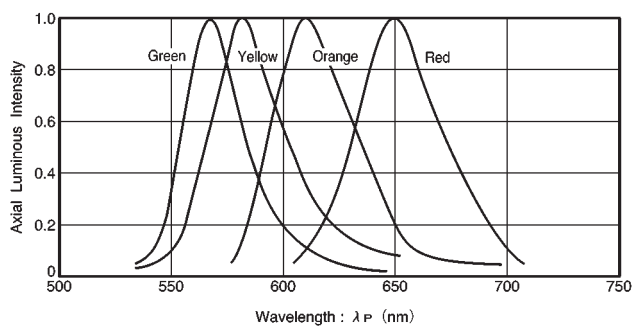
Parameter	Symbol	Red	LD-201VR	Orange	LD-201DU	Yellow	LD-201YY	Green	LD-201MG	Unit
Power dissipation	P _D	60	60	60	60	60	60	60	60	mW
Forward current	I _F	20	20	20	20	20	20	20	20	mA
Peak forward current	I _{FP}	60*	60*	60*	60*	60*	60*	60*	60*	mA
Reverse voltage	V _R	3	3	3	3	3	3	3	3	V
Operating temperature	T _{opr}	-25~+85								°C
Storage temperature	T _{stg}	-30~+100								°C

* Pulse width 1ms duty 1 / 5

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

Parameter	Symbol	Conditions	Red			Orange			Yellow			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	V_F	$I_F=10\text{mA}$	—	2.0	2.8	—	2.0	2.8	—	2.1	2.8	—	2.1	2.8	V
Reverse current	I_R	$V_R=3\text{V}$	—	—	10	—	—	10	—	—	10	—	—	10	μA
Peak wavelength	λ_P	$I_F=10\text{mA}$	—	650	—	—	610	—	—	585	—	—	563	—	nm
Spectral line half width	$\Delta\lambda$	$I_F=10\text{mA}$	—	40	—	—	40	—	—	40	—	—	40	—	nm

●Luminous intensity vs. wavelength



●Luminous intensity

Color	Type	Min.	Typ.	Max.	Unit
Red	LD-201VR	2.2	6.3	—	mcd
Orange	LD-201DU	2.2	6.3	—	mcd
Yellow	LD-201YY	1.4	4.0	—	mcd
Green	LD-201MG	3.6	10	—	mcd

Note: Measured at $I_F = 10\text{mA}$

●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.