

# High efficiency, single-digit numeric displays

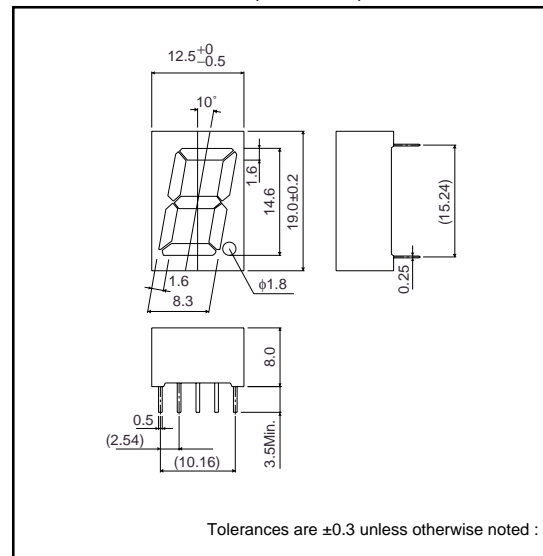
## LA-601BL Series

The LA-601BL series are LED numeric displays designed to be used in bright locations. Red, orange, and green are available, and they are suitable for use in a wide range of applications.

### ●Features

- 1) Height of display: 14.6 mm.
- 2) Dimensions: 12.5 x 19 x 8 mm
- 3) Common anode and common cathode configurations are available for each color.
- 4) High efficiency reflectors are used to achieve a bright, clear display.
- 5) The package surface is painted black and the segments are colored the display color.

### ●External Dimensions (Units: mm)

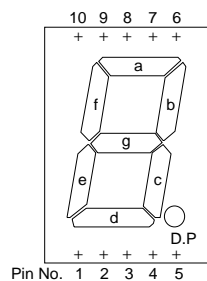


### ●Selection guide

Emitting color	Common		
	Red	Orange	Green
Anode	LA-601VB	LA-601DB *	LA-601MB
Cathode	LA-601VL	LA-601DL *	LA-601ML

\* Order-based production.

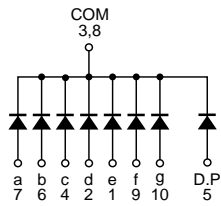
### ●Pin assignments



Pin No.	Function
1	Segment "e"
2	Segment "d"
3	Common
4	Segment "c"
5	D.P
6	Segment "b"
7	Segment "a"
8	Common
9	Segment "f"
10	Segment "g"

LED displays

●Internal circuit schematic (example of common cathode)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Orange	Green	Unit
		LA-601VB / VL	LA-601DB / DL	LA-601MB / ML	
Power dissipation	P <sub>D</sub>	480	480	480	mW
Power dissipation	P <sub>D</sub> / seg	60	60	60	mW
Forward current	I <sub>F</sub>	20	20	20	mA
Peak forward current	I <sub>FP</sub>	60*	60*	60*	mA
Reverse voltage	V <sub>R</sub>	5	5	5	V
Operating temperature	T <sub>opr</sub>	-25~+75			°C
Storage temperature	T <sub>stg</sub>	-30~+85			°C

\* Pulse width 1ms duty 1 / 5

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

Parameter	Symbol	Conditions	Red			Orange			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	-	2.0	2.8	-	2.0	2.8	-	2.1	2.8	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =3V	-	-	100	-	-	100	-	-	100	μA
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> =10mA	-	650	-	-	610	-	-	563	-	nm
Spectral line half width	Δλ	I <sub>F</sub> =10mA	-	40	-	-	40	-	-	40	-	nm

© Not designed for radiation resistance.

●Luminous intensity

Color	λ <sub>P</sub>	Type	Min.	Typ.	Max.	Unit
Red	650	LA-601VB	3.6	10	-	mcd
		LA-601VL				
Orange	610	LA-601DB	3.6	10	-	mcd
		LA-601DL				
Green	563	LA-601MB	5.6	16	-	mcd
		LA-601ML				

Note : Measured at I<sub>F</sub>=10mA