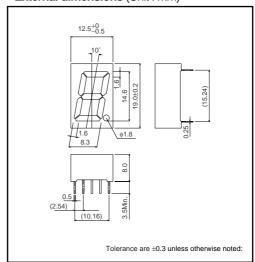
# Single Digit LED Numeric Display LA-601 B / L Series

LA-601 B / L series is designed to use in the light. Materials of emission are GaAsP on GaP, AlGalnP GaP and GaN. This is the height of a letter 14.6mm, single digit LED Numeric Display that is packed by epoxy resin.

#### Features

- 1) The height of a letter is 14.6mm.
- 2) Dimension is 12.5×19.0×8.0mm.
- The package of surface color is black. Color of segment is colored in emitting color. (Blue color is only milky white)
- 4) Each color has anode common and cathode common respectively.

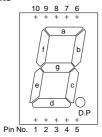
#### ●External dimensions (Unit : mm)



#### Selection guide

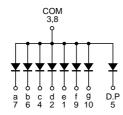
Emitting color Common	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue
Anode	LA-601VB	LA-601AB	LA-601EB	LA-601XB	LA-601MB	LA-601BB
Cathode	LA-601VL	LA-601AL	LA-601EL	LA-601XL	LA-601ML	LA-601BL

## Pin assignments

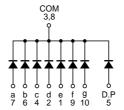


Pin No.	Function
1	Segment "e"
2	Segment "d"
3	Common
4	Segment "c"
5	D.P
6	Segment "b"
7	Segment "a"
8	Common
9	Segment "f"
10	Segment "g"

## ●Equivalent circuit (anode common)



#### (cathode common)



## ● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue	Unit		
	,	LA-601VB / VL	LA-601AB / AL	LA-601EB / EL	LA-601XB / XL	LA-601MB / ML	LA-601BB / BL			
Power dissipation	P□	480	520	520	520	480	336	mW		
Power dissipation	P <sub>D</sub> / seg	60	65	65	65	60	42	mW		
Forward current	lF	20	25	25	25	20	10	mA		
Peak forward current	I <sub>FP</sub>	60 *1	50 *2	50 *2	50 *2	60 *1	50 *2	mA		
Reverse voltage	V <sub>R</sub>	5	5	5	5	5	5	V		
Operating temperature	Topr		-25 to +75							
Storage temperature	Tstg		-30 to +85							

# ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Red		Red (High brightness)		Orange (High brightness)		Yellow (High brightness)		Green		Blue		Unit
			Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	
Forward voltage	VF	I <sub>F</sub> =10mA	2.0	2.8	2.05*	2.6 *	2.05 *	2.6 *	2.05*	2.6*	2.1	2.8	3.6	4.2	V
Reverse current	IR	V <sub>R</sub> =3V	-	100	-	100	-	100	-	100	_	100	-	100	μΑ
Peak wavelength	λ <sub>P</sub>	I <sub>F</sub> =10mA	650	-	626*	-	610*	-	589*	-	563	-	470	-	nm
Spectral line half width	Δλ	I=10mA	40	_	18 *	-	17 *	_	15 *	-	40	-	26	_	nm

# Luminous intensity

Color	λ <sub>P</sub> (nm)	Туре	Min.	Тур.	Unit	
Red	650	LA-601VB	5.6	14	mcd	
Reu	630	LA-601VL	5.6	14		
Dad (High hyightness)	626	LA-601AB	36	90	mcd	
Red (High brightness)	020	LA-601AL	36	90	mca	
Oranga (High brightness)	610	LA-601EB	36	90	mcd	
Orange (High brightness)	610	LA-601EL	36	90	IIICu	
Vallau (Lligh brightness)	589	LA-601XB	36	00	mcd	
Yellow (High brightness)	569	LA-601XL	36	90	mca	
Croon	FC2	LA-601MB	9	22		
Green	563	LA-601ML	9	22	mcd	
Dlue	470	LA-601BB	4.4	FC		
Blue	470	LA-601BL	14	56	mcd	

OA condition of measurement is I<sub>F</sub>=10mA.

<sup>\*1</sup> Pulse width 1ms Duty 1 / 5 \*2 Pulse width 0.1ms Duty 1 / 10

<sup>○</sup>The products are not radiations resistant.\* Shows the number on the condition of I<sub>F</sub>=20mA.

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