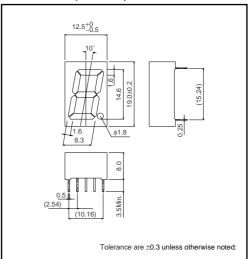
# Single Digit LED Numeric Display LA-601 B / L Series

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.

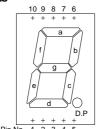
#### ●Dimensions (Unit: mm)



### Selection guide

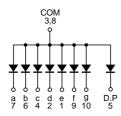
Emitting color Common	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue	
Anode	LA-601VB	LA-601AB	LA-601EB	LA-601XB	LA-601MB	LA-601BB	
Cathode	LA-601VL	LA-601AL	LA-601EL	LA-601XL	LA-601ML	LA-601BL	

# Pin assignments

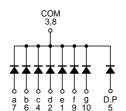


Pin No.	Function			
1	Segment "e"			
2	Segment "d"			
3	Common			
4	Segment "c"			
5	D.P			
6	Segment "b"			
7	Segment "a"			
8	Common			
9	Segment "f"			
10	Segment "g"			

# ●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	$V_R$	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 Svn	Symbol	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	I <sub>R</sub>	V <sub>R</sub> =3V	-	100	-	100	-	100	-	100	-	100	-	100	μΑ
Peak wavelength	λР	I <sub>F</sub> =10mA	650	_	626*	-	610*	-	589*	-	563	-	470	-	nm
Spectral line half width	Δλ	I <sub>F</sub> =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	3.6	14		
Red (High brightness)	626	LA-601AB	36	00	mcd	
Rea (Figit brightness)	020	LA-601AL	36	90		
Orange (High brightness)	610	LA-601EB	36	90	mcd	
Orange (Figh brightness)	610	LA-601EL	36		mica	
Vallau (High brightness)	589	LA-601XB	36	90	mcd	
Yellow (High brightness)	569	LA-601XL	36		mca	
Green	563	LA-601MB	9	22	ma a d	
Green	503	LA-601ML	9	22	mcd	
Blue	470	LA-601BB	14	56	mad	
Diue	470	LA-601BL	14	96	mcd	

<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.

### •Electrical and optical characteristic curves

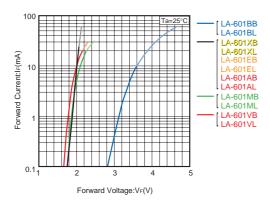


Fig.1 Forward Current - Forward Voltage

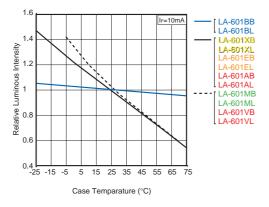


Fig.3 Relative Luminous Intensity - Case Temperature

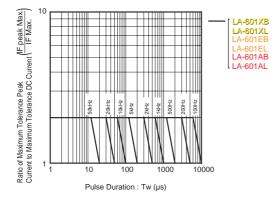


Fig.5 Ratio of Maximum Tolerable Peak Current - Pulse Duration (  $\,{
m II}$  )

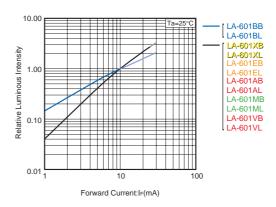


Fig.2 Relative Luminous Intensity - Forward Current

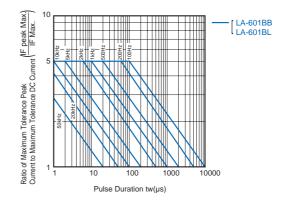


Fig.4 Ratio of Maximum Tolerable Peak Current - Pulse Duration (I)

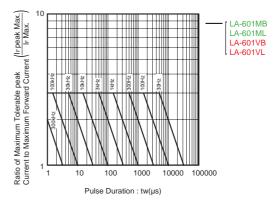


Fig. 6 Ratio of Maximum Tolerable Peak Current - Pulse Duration (  ${
m III}$  )



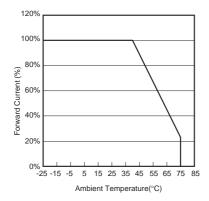


Fig.7 Derating

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# LA-601VL - Web Page

**Distribution Inventory** 

Part Number	LA-601VL
Package	LA-601VL
Unit Quantity	60
Minimum Package Quantity	
Packing Type	Filmpack
Constitution Materials List	inquiry
RoHS	Yes