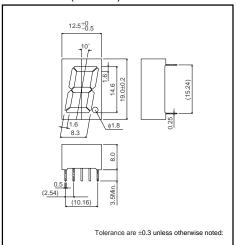
Single Digit LED Numeric Display LA-601 B / L Series

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.

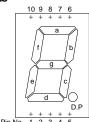
●Dimensions (Unit: mm)



Selection guide

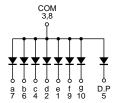
Emitting color Common	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue
Anode	LA-601VB	LA-601AB	LA-601EB	LA-601XB	LA-601MB	LA-601BB
Cathode	LA-601VL	LA-601AL	LA-601EL	LA-601XL	LA-601ML	LA-601BL

●Pin assignments

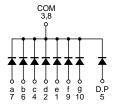


Pin No.	Function
1	Segment "e"
2	Segment "d"
3	Common
4	Segment "c"
5	D.P
6	Segment "b"
7	Segment "a"
8	Common
9	Segment "f"
10	Segment "g"

●Equivalent circuit (anode common)



(cathode common)



Rev.B

1/4

● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue	Unit	
	Í	LA-601VB / VL	LA-601AB / AL	LA-601EB / EL	LA-601XB / XL	LA-601MB / ML	LA-601BB / BL		
Power dissipation	PD	480	520	520	520	480	336	mW	
Power dissipation	P _D / seg	60	65	65	65	60	42	mW	
Forward current	IF	20	25	25	25	20	10	mA	
Peak forward current	I _{FP}	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	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	V _F	I _F =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 _R	V _R =3V	-	100	-	100	-	100	-	100	_	100	-	100	μА
Peak wavelength	λ _P	I _F =10mA	650	-	626*	-	610*	-	589*	-	563	-	470	-	nm
Spectral line half width	Δλ	I _F =10mA	40	-	18 *	-	17 *	-	15 *	-	40	-	26	-	nm

 [⊕]The products are not radiations resistant.
 * Shows the number on the condition of I⊨20mA.

Luminous intensity

Color	λ _P (nm)	Туре	Min.	Тур.	Unit	
Red	650	LA-601VB	5.6	14	mcd	
Reu	030	LA-601VL	3.0	14		
Pod (High brightness)	626	LA-601AB	36	90	mcd	
Red (High brightness)	020	LA-601AL	36	90	mea	
Orange (High brightness)	610	LA-601EB	36	90	mcd	
Orange (Flight brightness)	010	LA-601EL	30	90	IIICU	
Vollow (High brightness)	589	LA-601XB	36	90	mad	
Yellow (High brightness)	509	LA-601XL	36	90	mcd	
Green	563	LA-601MB	9	22	mad	
Green	303	LA-601ML	9		mcd	
Blue	470	LA-601BB	14	56	mod	
Diue	4/0	LA-601BL	14	56	mcd	

^{*1} Pulse width 1ms Duty 1 / 5 *2 Pulse width 0.1ms Duty 1 / 10

Electrical and optical characteristic curves

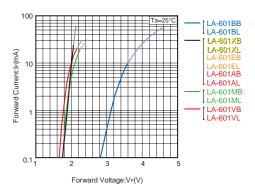


Fig.1 Forward Current - Forward Voltage

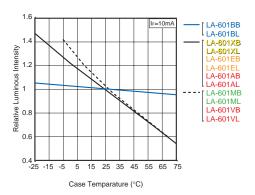


Fig.3 Relative Luminous Intensity - Case Temperature

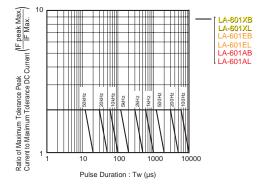


Fig.5 Ratio of Maximum Tolerable Peak Current - Pulse Duration (${
m II}$)

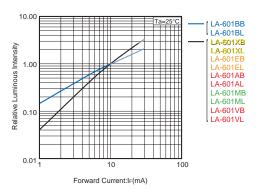


Fig.2 Relative Luminous Intensity - Forward Current

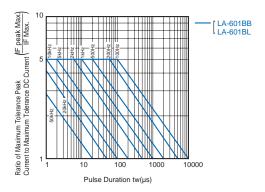


Fig.4 Ratio of Maximum Tolerable Peak Current - Pulse Duration (I)

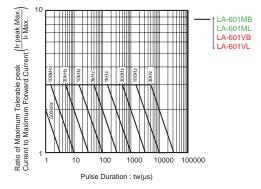


Fig.6 Ratio of Maximum Tolerable Peak Current - Pulse Duration (${
m III}$)

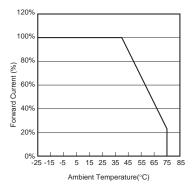


Fig.7 Derating

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Appendix1-Rev2.0