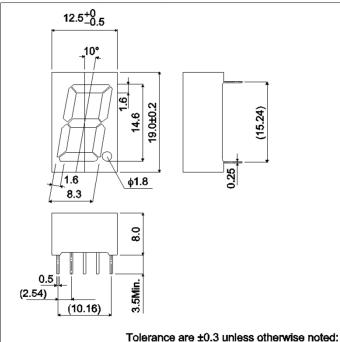
LA-601 B / L series is designed to use in the light. Materials of emission are GaAsP on GaP, AlGaInP and GaP. This is the height of a letter 14.6mm, single digit LED Numeric Display that is packed by epoxy resin.

Features

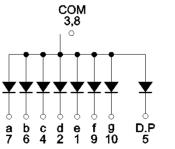
- 1) The height of a letter is 14.6mm.
- 2) Dimension is 12.5×19.0×8.0mm.
- 3) The package of surface color is black. Color of segment is colored in emitting color.
- 4) Each color has anode common and cathode common respectively.

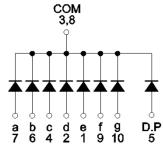
•Dimensions (Unit : mm)



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

Internal circuit schematic







Cathode Common

Selection guide

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

•Absolute maximum ratings ($T_a = 25^{\circ}C$)

Parameter	Symbol	Red	Red (High brightness)			Green	Unit
		LA-601VB / VL	LA-601AB / AL	LA-601EB / EL	LA-601XB / XL	LA-601MB / ML	
Power dissipation	P _D	480	520	520	520	480	mW
Power dissipation	P_D / seg	60	65	65	65	60	mW
Forward current	I _F	20	25	25	25	20	mA
Peak forward current	I_{FP}	60 * ¹	50 * ²	50 * ²	50 * ²	60 * ¹	mA
Reverse voltage	V _R	5	5	5	5	5	V
Operating temperature	T _{opr}	-25 to +75					
Storage temperature	T _{stg}	-30 to +85					

*¹ Pulse width 1ms, duty 1 / 5

 $*^2$ Pulse width 0.1ms, duty 1 / 10

•Electrical and optical characteristics ($T_a = 25^{\circ}C$)

Parameter	Symbol Condition		Red					Orange (High brightness)		Yellow (High brightness) (NRND)		Green	
			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	V
Reverse current	I _R	V _R =3V	-	100	-	100	-	100	-	100	-	100	μA
Peak wavelength	λρ	I _F =10mA	650	-	626*	-	610*	-	589*	-	563	-	nm
Spectral line halfwidth	Δλ	I _F =10mA	40	-	18*	-	17*	-	15*	-	40	-	nm

O Not designed for radiation resistance.

 * Shows the number on the condition of I_F=20mA.

2/5

•Luminous intensity

Parameter	λ_{p}	Туре	Min.	Тур.	Max.	Unit
Red	650	LA-601VB	5.6	4.4		
Reu	050	LA-601VL	5.0	14	-	mcd
Red	626	LA-601AB	36	90	-	med
(High brightness)	020	LA-601AL		90	-	mcd
Orange	610	LA-601EB	36	90	-	mcd
(High brightness)	010	LA-601EL		90	-	
Yellow (High brightness)	589	LA-601XB	36	90	_	mcd
(NRND)	569	LA-601XL		90	-	
Green	563	LA-601MB	9	22		mcd
Gieen	503	LA-601ML	9	22	-	mcu

© Condition I_F=10mA

●Iv classification

Parameter	Туре	Item	lv cla	ssific	cation	Unit
		" L "	5.6	to	11	mcd
		" M "	9.0	to	18	mcd
Red	LA-601VB LA-601VL	" N "	14	to	28	mcd
		" P "	" P " 22 to 45			
		" Q "	36	to	(71)	mcd
		" Q "	36	to	71	mcd
		" R "	56	to	110	mcd
Red (High brightness)	LA-601AB LA-601AL	" S "	90	to	180	mcd
(ingli singlianees)		"Т"	140	to	280	mcd
		" U "	220	to	(450)	mcd
		" Q "	36	to	71	mcd
		" R "	56	to	110	mcd
Orange (High brightness)	LA-601EB LA-601EL	" S "	90	to	180	mcd
("Т"	140	to	280	mcd
		" U "	220	to	(450)	mcd
		" M "	9.0	to	18	mcd
Green		" N "	14	to	28	mcd
	LA-601MB LA-601ML	"P"	22	to	45	mcd
		" Q "	36	to	71	mcd
		" R "	56	to	(110)	mcd

 \bigcirc Condition I_F=10mA

•Electrical and optical characteristics curves

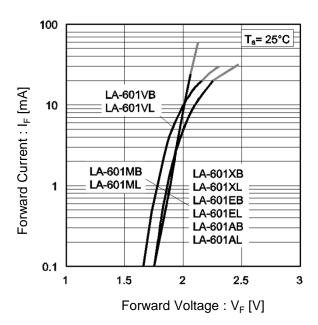


Fig.1 Forward Current vs. Forward Voltage

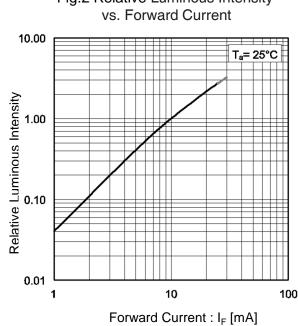
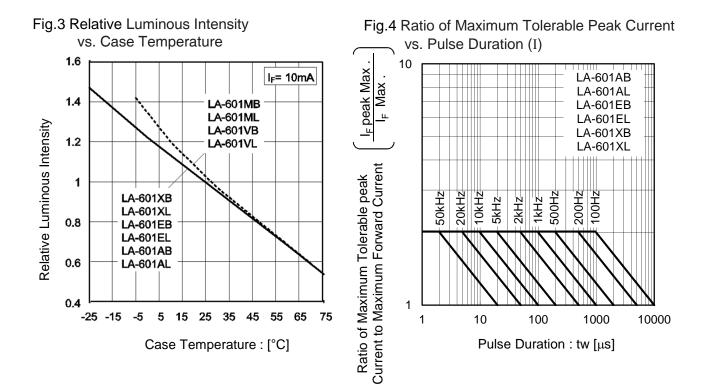
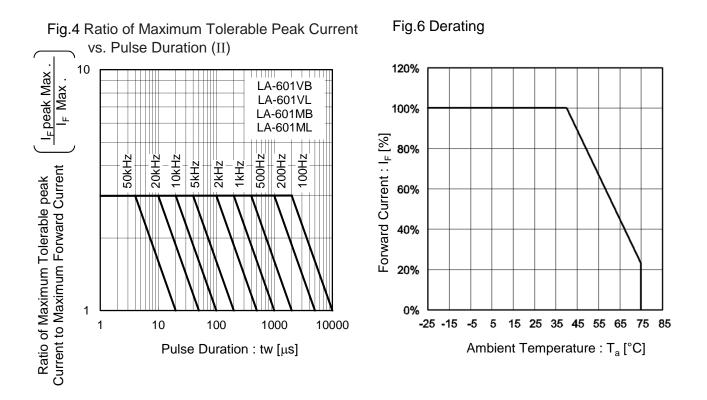


Fig.2 Relative Luminous Intensity



•Electrical and optical characteristics curves





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