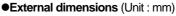
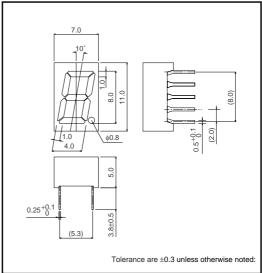
Single Digit LED Numeric Display LA-301 B / L Series

LA-301 B / L series is developed because of the demand for small single digit LED Numeric Display. Materials of emission are GaAsP on GaP, AlGalnP, GaP and GaN. This is the height of a letter 8mm, single digit LED Numeric Display that is packed by epoxy resin.

Features

- 1) The height of a letter is 8mm.
- 2) The light don't leak from the segment in spite of the small package.
- 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.



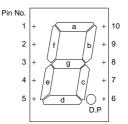


Selection guide

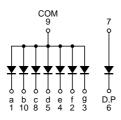
Emitting color Common	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue
Anode	LA-301VB	LA-301AB	LA-301EB	LA-301XB	LA-301MB	LA-301BB
Cathode	LA-301VL	LA-301AL	LA-301EL	LA-301XL	LA-301ML	LA-301BL

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Pin assignments

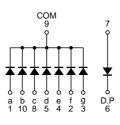


•Equivalent circuit (anode common)



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

(cathode common)



1/2

LED displays

•Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue	Unit		
	,	LA-301VB / VL	LA-301AB / AL	LA-301EB / EL	LA-301XB / XL	LA-301MB / ML	LA-301BB / BL			
Power dissipation	PD	320	520	520	520	480	336	mW		
Power dissipation	PD / seg	40	65	65	65	60	42	mW		
Forward current	lF	15	25	25	25	20	10	mA		
Peak forward current	IFP	60 *1	50 * ²	50 *2	50 * ²	60 * ¹	50 * ²	mA		
Reverse voltage	Vr	5	5	5	5	5	5	V		
Operating temperature	Topr		-25 to +75							
Storage temperature	Tstg		-30 to +85							

*1 Pulse width 1ms Duty 1 / 5 *2 Pulse width 0.1ms Duty 1 / 10

•Electrical characteristics (Ta=25°C)

Parameter	Symbol Co	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 _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	IR	V _R =3V	-	100	-	100	-	100	-	100	-	100	-	100	μA
Peak wavelength	λρ	I⊧=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_F=20mA.

Luminous intensity

Color	λ _P (nm)	Туре	Min.	Тур.	Unit	
Ded	650	LA-301VB	3.6	10	mcd	
Red	000	LA-301VL	3.0	10		
Ded (Link brinkterse)	626	LA-301AB	20	00	mcd	
Red (High brightness)	620	LA-301AL	36	90		
Orongo (Lligh brightnoog)	610	LA-301EB	36	00	mcd	
Orange (High brightness)	610	LA-301EL	30	90		
Vallau (Lligh brightnasa)	589	LA-301XB	20	00	mad	
Yellow (High brightness)	269	LA-301XL	36	90	mcd	
Green	563	LA-301MB	2.0	10	mad	
Green	203	LA-301ML	3.6	10	mcd	
Plue	470	LA-301BB	14	50	mad	
Blue	470	LA-301BL	14	56	mcd	

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