

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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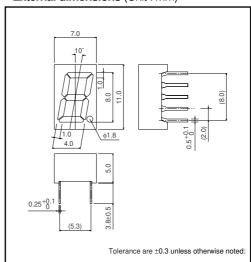
Single Digit LED Numeric Display LA-301 B / L Series

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.

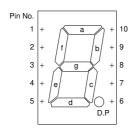
●External dimensions (Unit : mm)



Selection guide

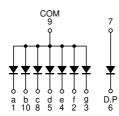
Emitting color Common	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue	
Anode	LA-301VB	LA-301AB	LA-301EB	LA-301XB	LA-301MB	LA-301BB	
Cathode	LA-301VL	LA-301AL	LA-301EL	LA-301XL	LA-301ML	LA-301BL	

Pin assignments

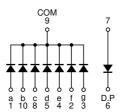


Pin No.	Function				
1	Segment "a"				
2	Segment "f"				
3	Segment "g"				
4	Segment "e"				
5	Segment "d"				
6	D.P Cathode				
7	D.P Anode				
8	Segment "c"				
9	Common				
10	Segment "b"				

●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-301VB / VL		LA-301XB / XL	LA-301MB / ML LA-301BB / BL				
Power dissipation	P□	320	520	520	520	480	336	mW	
Power dissipation	P _D / 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	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 Syr	Symbol	Conditions	Red		Red (High brightness)		Orange (High brightness)		Yellow (High brightness)		Green		Blue		Unit
			Тур.	Мах.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Мах.	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	μА
Peak wavelength	λР	I=10mA	650	-	626*	-	610*	-	589*	-	563	-	470	-	nm
Spectral line half width	Δλ	I _F =10mA	40	_	18	_	17	_	15	_	40	_	26	_	nm

ROHM

Luminous intensity

Color	λ _P (nm)	Туре	Min.	Тур.	Unit	
D-4	650	LA-301VB	3.6	10	mad	
Red	000	LA-301VL	3.0	10	mcd	
Dod (High brightness)	coc	LA-301AB	00	00		
Red (High brightness)	626	LA-301AL	36	90	mcd	
0 (11:11:11:11:11:11:11:11:11:11:11:11:11:	610	LA-301EB	36	90	mad	
Orange (High brightness)	010	LA-301EL	36	90	mcd	
Vallaur (High brightness)	589	LA-301XB	36	00	mad	
Yellow (High brightness)	269	LA-301XL	36	90	mcd	
Craon	563	LA-301MB	3.6	10	mad	
Green	203	LA-301ML	3.6	10	mcd	
Blue	470	LA-301BB	14	EC	mad	
	470	LA-301BL	14	56	mcd	

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

The products are not radiations resistant.
Shows the number on the condition of I=20mA.