



# THE DATASHEET OF LA-301VL





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	P <sub>D</sub>	320	520	520	520	480	336	mW
Power dissipation	P <sub>D</sub> / seg	40	65	65	65	60	42	mW
Forward current	I <sub>F</sub>	15	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 <sub>R</sub>	5	5	5	5	5	5	V
Operating temperature	T <sub>opr</sub>	-25 to +75						°C
Storage temperature	T <sub>stg</sub>	-30 to +85						°C

\*1 Pulse width 1ms Duty 1 / 5

\*2 Pulse width 0.1ms Duty 1 / 10

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Red		Red (High brightness)		Orange (High brightness)		Yellow (High brightness)		Green		Blue		Unit
			Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	
Forward voltage	V <sub>F</sub>	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	μA
Peak wavelength	λ <sub>P</sub>	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

©The products are not radiations resistant.

\* Shows the number on the condition of I<sub>F</sub>=20mA.



●Luminous intensity

Color	λ <sub>P</sub> (nm)	Type	Min.	Typ.	Unit
Red	650	LA-301VB	3.6	10	mcd
		LA-301VL			
Red (High brightness)	626	LA-301AB	36	90	mcd
		LA-301AL			
Orange (High brightness)	610	LA-301EB	36	90	mcd
		LA-301EL			
Yellow (High brightness)	589	LA-301XB	36	90	mcd
		LA-301XL			
Green	563	LA-301MB	3.6	10	mcd
		LA-301ML			
Blue	470	LA-301BB	14	56	mcd
		LA-301BL			

© A condition of measurement is I<sub>F</sub>=10mA.

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