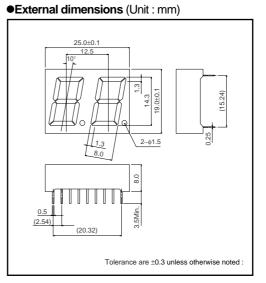
# Double Digits LED Numeric Display LB-602 A / K2 Series

LB-602 A / K2 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 14.3mm, double digits LED Numeric Display that is packed by epoxy resin.

#### Features

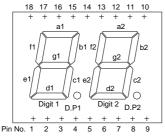
- 1) The height of a letter is 14.3mm.
- 2) Dimension is 25.0×19.0×8.0mm.
- The package of surface color is black. Color of segment is colored in emitting color. (Blue color is only milky white)
- 4) Each color has anode common and cathode common respectively.



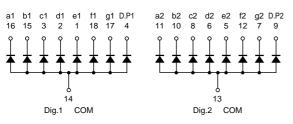
### Selection guide

Emitting color Common	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue
Anode	LB-602VA2	LB-602AA2	LB-602EA2	LB-602XA2	LB-602MA2	LB-602BA2
Cathode	LB-602VK2	LB-602AK2	LB-602EK2	LB-602XK2	LB-602MK2	LB-602BK2

### Pin assignments

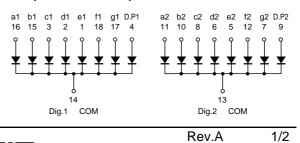


# •Equivalent circuit (anode common)



Pin No.	Function	Pin No.	Function		
1	Segment "e1"	10	Segment "b2"		
2	Segment "d1"	11	Segment "a2"		
3	Segment "c1"	12	Segment "f2"		
4	D.P1	13	Digit 2 Common		
5	Segment "e2"	14	Digit 1 Common		
6	Segment "d2"	15	Segment "b1"		
7	Segment "g2"	16	Segment "a1"		
8	Segment "c2"	17	Segment "g1"		
9	D.P2	18	Segment "f1"		

### (cathode common)



rohm

# LED displays

## •Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue	Unit		
		LB-602VA2 / VK2	LB-602AA2 / AK2	LB-602EA2 /EK2	LB-602XA2 / XK2	LB-602MA2 / MK2	LB-602BA2 / BK2			
Power dissipation	Po	960	1040	1040	1040	960	960	mW		
Power dissipation	P <sub>D</sub> / seg	60	65	65	65	65	42	mW		
Forward current	IF	20	25	25	25	20	10	mA		
Peak forward current	IFP	60 *1	50 * <sup>2</sup>	50 *2	50 *2	60 *1	50 * <sup>2</sup>	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										

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

# •Electrical characteristics (Ta=25°C)

Parameter	Symbol Condition	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⊧=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	Vr=3V	-	100	-	100	-	100	-	100	-	100	-	100	μA
Peak wavelength	λρ	I⊧=10mA	650	-	626 <sup>*</sup>	-	610*	-	589 <sup>*</sup>	-	563	-	470	-	nm
Spectral line half width	Δλ	I⊧=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)	Туре	Min.	Тур.	Unit	
Red	650	LB-602VA2	5.6	16	mad	
Rea	000	LB-602VK2	0.0	10	mcd	
Red (High brightness)	626	LB-602AA2	36	90	mcd	
Red (Fligh brightness)	620	LB-602AK2	30	90	mca	
Orongo (High brightnoog)	610	LB-602EA2	36	00	mcd	
Orange (High brightness)	610	LB-602EK2	- 30	90	mcu	
Valley (Lligh brightness)	589	LB-602XA2	36	00	mad	
Yellow (High brightness)	289	LB-602XK2	30	90	mcd	
Green	563	LB-602MA2	9	25	mod	
Green	505	LB-602MK2	9	25	mcd	
Plue	470	LB-602BA2	14	FC	mad	
Blue	470	LB-602BK2	14	56	mcd	

 $\bigcirc$  A condition of measurement is I<sub>F</sub>=10mA.

# Appendix

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