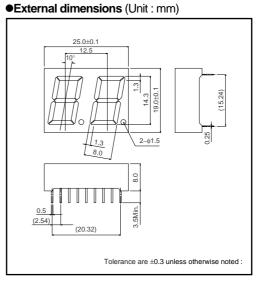
# Double Digits LED Numeric Display LB-602 A / K2 Series

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

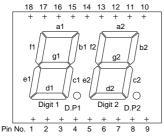
- 1) The height of a letter is 14.3mm.
- 2) Dimension is 25.0×19.0×8.0mm.
- The package of surface color is black. Color of segment is colored in emitting color. (Blue color is only milky white)
- 4) Each color has anode common and cathode common respectively.



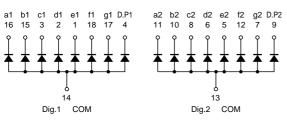
### Selection guide

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

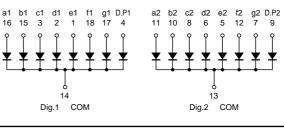


### Equivalent circuit (anode common)



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)

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			
PD	960	1040	1040	1040	960	960	mW		
PD / seg	60	65	65	65	65	42	mW		
lF	20	25	25	25	20	10	mA		
IFP	60 *1	50 * <sup>2</sup>	50 *2	50 * <sup>2</sup>	60 *1	50 * <sup>2</sup>	mA		
VR	5	5	5	5	5	5	V		
Topr		-25 to +75							
Tstg		-30 to +85							
	P <sub>D</sub> P <sub>D</sub> / seg I <sub>F</sub> I <sub>FP</sub> V <sub>R</sub> Topr	Symbol      International        LB-602VA2 / VK2      Po        Po      960        Po / seg      60        IF      20        IFP      60      *1        VR      5        Topr	Symbol      Red      (High brightness)        LB-602VA2 / VK2      LB-602AA2 / AK2        PD      960      1040        PD / seg      60      65        IF      20      25        IFP      60      *1        VR      5      5        Topr	Symbol      Red      (High brightness)      (High brightness)        LB-602VA2 / VK2      LB-602A2 / AK2      LB-602EA2 / EK2        PD      960      1040      1040        PD / seg      60      65      65        IF      20      25      25        IFP      60      *1      50      *2        VR      5      5      5        Topr      -25 to      -25 to	Symbol      Red      (High brightness)      (High brightness)<	Symbol      Red      (High brightness)      (High brightness)      (High brightness)      (High brightness)      Green        LB-602VA2 / VK2      LB-602VA2 / VK2      LB-602VA2 / KK2      LB-602XA2 / KK	Symbol      Red      (High brightness)      (High brightness)<		

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

### •Electrical characteristics (Ta=25°C)

Parameter	Symbol Cond	Conditions	Red		Red (High brightness)		Orange (High brightness)		Yellow (High brightness)		Green		Blue		Unit
	ļ ,		Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	
Forward voltage	VF	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	IR	V <sub>R</sub> =3V	-	100	-	100	-	100	-	100	-	100	-	100	μΑ
Peak wavelength	λρ	I⊧=10mA	650	-	626*	-	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 IF=20mA.

## •Luminous intensity

Color	λ <sub>P</sub> (nm)	Туре	Min.	Тур.	Unit	
Red	650	LB-602VA2	5.0	16	m o d	
Red	650	LB-602VK2	5.6	10	mcd	
Red (High brightness)	626	LB-602AA2	36	90	mcd	
Red (Figh blightness)	020	LB-602AK2	30	90	mcu	
Oranga (High brightnasa)	610	LB-602EA2	36	90	mcd	
Orange (High brightness)	610	LB-602EK2	- 30	90	mcu	
Yellow (High brightness)	589	LB-602XA2	36	90	mcd	
reliow (Figh brightness)	209	LB-602XK2	30	90	mcu	
Green	563	LB-602MA2	9	25	mod	
Gleen	505	LB-602MK2	9	25	mcd	
Blue	470	LB-602BA2	14	FC	mad	
DIUE	470	LB-602BK2	14	56	mcd	

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

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