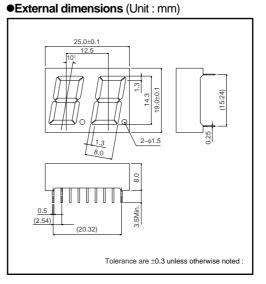
# **Double Digits LED Numeric Display** LB-602 A / K2 Series

LB-602 A / K2 series is designed to use in the light. Materials of emission are GaAsP on GaP, AlGaInP GaP and GaN. This is the height of a letter 14.3mm, double digits LED Numeric Display that is packed by epoxy resin.

### Features

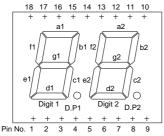
- 1) The height of a letter is 14.3mm.
- 2) Dimension is 25.0×19.0×8.0mm.
- 3) The package of surface color is black. Color of segment is colored in emitting color. (Blue color is only milky white)
- 4) Each color has anode common and cathode common respectively.



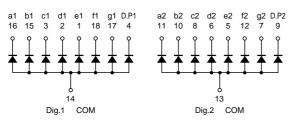
### Selection guide

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

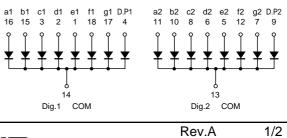


### Equivalent circuit (anode common)



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)



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# 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			
P <sub>D</sub> / seg	60	65	65	65	65	42	mW			
lf	20	25	25	25	20	10	mA			
IFP	60 * <sup>1</sup>	50 * <sup>2</sup>	50 *2	50 *2	60 * <sup>1</sup>	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 IF IFP VR Topr	Symbol  LB-602VA2 / VK2    PD  960    PD / 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    Po  960  1040  1040    Po / 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 / AK2  LB-602ZA2 / EK2  LB-602XA2 / XK2  LB-602XA2 / XK	Symbol  Green  Bide    Bide  Bide    Bide  (High brightness)  (High brightness)  (High brightness)  (Green  Bide    Bide  (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 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	μΑ
Peak wavelength	λρ	I <sub>F</sub> =10mA	650	-	626*	-	610*	-	589 <sup>*</sup>	-	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)	Туре	Min.	Typ.	Unit	
Ded	050	LB-602VA2	5.0	40		
Red	650	LB-602VK2	5.6	16	mcd	
Red (High brightness)	626	LB-602AA2	26	00	mcd	
Red (High brightness)	626	LB-602AK2	36	90	mca	
Orange (Lligh brightness)	610	LB-602EA2	36	90	mcd	
Orange (High brightness)	610	LB-602EK2	- 30	90	mcu	
Vollow (High brightnoon)	589	LB-602XA2	26	00	mcd	
Yellow (High brightness)	289	LB-602XK2	36	90	mca	
Green	563	LB-602MA2	9	25	mod	
Gleen	505	LB-602MK2	9	25	mcd	
Blue	470	LB-602BA2	14	FG	mod	
DIUE	470	LB-602BK2	14	56	mcd	

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

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