LB-602 A / K2 Series

LED displays

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

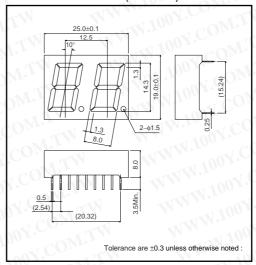
LB-602 A / K2 series is designed to use in the light.

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.

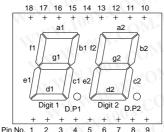
### ●External dimensions (Unit: mm)



## Selection guide

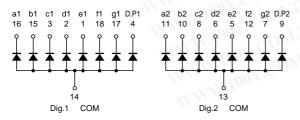
Emitting color Common	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness)	Green	Blue
Anode	LB-602VA2	LB-602AA2	LB-602EA2	LB-602XA2	LB-602MA2	LB-602BA2
Cathode	LB-602VK2	LB-602AK2	LB-602EK2	LB-602XK2	LB-602MK2	LB-602BK2

# Pin assignments

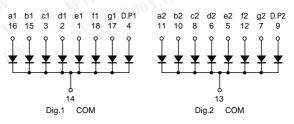


Pin No.	Function	Pin No.	Function
1	Segment "e1"	10	Segment "b2"
2	Segment "d1"	11	Segment "a2"
3	Segment "c1"	12	Segment "f2"
4	D.P1	13	Digit 2 Common
5	Segment "e2"	14	Digit 1 Common
6	Segment "d2"	15	Segment "b1"
7	Segment "g2"	16	Segment "a1"
8	Segment "c2"	17	Segment "g1"
9	D.P2	18	Segment "f1"

# ●Equivalent circuit (anode common)



# (cathode common)



# LB-602 A / K2 Series

# W.100Y.COM.TW W.Yoox.COM LED displays

Parameter	Symbol	Red	(High brightness)	Orange (High brightness)	(High brightness)	Green	Blue	
	4// //	LB-602VA2 / VK2	LB-602AA2 / AK2	LB-602EA2 /EK2	LB-602XA2 / XK2	LB-602MA2 / MK2	LB-602BA2 / BK2	1
Power dissipation	Po	960	1040	1040	1040	960	960	Т
Power dissipation	P <sub>D</sub> / seg	60	65	65	65	65	42	T
Forward current	lF	20	25	25	25	20	10	T
Peak forward current	IFP	60 *1	50 *2	50 *2	50 *2	60 *1	50 *2	K
Reverse voltage	V <sub>R</sub>	5	5	5	5	5	5	1
Operating temperature	Topr		VAL COR	−25 to	+75	any.	Co. 1	
Storage temperature	Tstg		100 2	-30 to	+85	W. 100	COM.	-

# ●Electrical characteristics (Ta=25°C)

Unit	Je	В	een	Gr	ow ghtness)	Yell High brig)	nge ghtness)	Ora High bri	ed ghtness)	Re (High brig	ed	R	Conditions	Symbol	Parameter
- T	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Conditions	Cymbol	Tarameter
V	4.2	3.6	2.8	2.1	2.6*	2.05*	2.6*	2.05 *	2.6 *	2.05*	2.8	2.0	I=10mA	VF	Forward voltage
μΑ	100	(A)	100	13.	100	-	100	~	100	T- 4	100	- 4	V <sub>R</sub> =3V	l <sub>R</sub>	Reverse current
nm	<+C	470	M.	563	-	589*	/ Jr	610*	<u> </u>	626*	-	650	I <sub>F</sub> =10mA	λP	Peak wavelength
nm	) F.	26		40	_	15 *	T-1 a	17 *	1 (H))	18 *	17	40	I <sub>F</sub> =10mA	Δλ	Spectral line half width
		470	- 10.70	563		589*	1.	610*	00	626*	100		V <sub>R</sub> =3V I <sub>F</sub> =10mA I <sub>F</sub> =10mA	$\lambda_{P}$ $\Delta\lambda$ ons resistar	Reverse current Peak wavelength Spectral line half width ©The products are not radiatie * Shows the number on the co

OThe products are not radiations resistant.

# Luminous intensity

Color	λ <sub>P</sub> (nm)	Туре	Min.	Тур.	Unit
Red	650	LB-602VA2	5.6	16	mcd
Reu	030	LB-602VK2	5.6	10	ilica
Dad (Lligh huightness)	COC	LB-602AA2	20	00	<7C
Red (High brightness)	626	LB-602AK2	36	90	mcd
0 (15.11)	V 003	LB-602EA2	20	00	N.Y.C
Orange (High brightness)	610	LB-602EK2	36	90	mcd
4 II 4 II 1 1 1 1 4 4 4 4 4 4 4 4 4 4 4	500	LB-602XA2	00	004	100 X
Yellow (High brightness)	589	LB-602XK2	36	90	mcd
	002	LB-602MA2	_	05	700
Green	563	LB-602MK2	9	25	mcd
	Jan	LB-602BA2		TAN Y	11.10
Blue	470	LB-602BK2	14	56	mcd

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

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

Http://www.100y.com.tw

**Appendix** 

# **Notes**

- No technical content pages of this document may be reproduced in any form or transmitted by any
  means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the
  product described in this document are for reference only. Upon actual use, therefore, please request
  that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard
  use and operation. Please pay careful attention to the peripheral conditions when designing circuits
  and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or
  otherwise dispose of the same, no express or implied right or license to practice or commercially
  exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

# About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.

