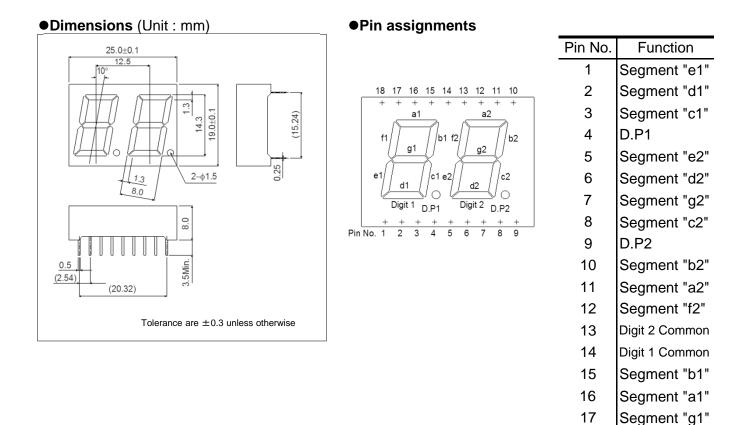
LB-602 A / K2 series is designed to use in the light. Materials of emission are GaAsP on GaP, AlGalnP GaP. This is the height of a letter 14.3mm, double digits LED Numeric Display that is packed by epoxy resin.

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.
- 4) Each color has anode common and cathode common respectively.



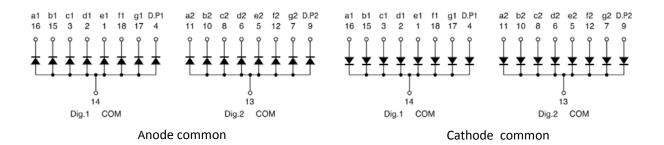
Selection guide

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

Segment "f1"

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•Internal circuit schematic



●Absolute maximum ratings (T_a = 25°C)

Parameter	Symbol	Red	Red (High brightness)	Orange (High brightness)	Yellow (High brightness) (NRND)	Green	Unit
		LB-602VA2 / VK2	LB-602AA2 / AK2	LB-602EA2 /EK2	LB-602XA2 / XK2	LB-602MA2 / MK2	
Power dissipation	P _D	960	1040	1040	1040	960	mW
Power dissipation	P_D / seg	60	65	65	65	60	mW
Forward current	۱ _F	20	25	25	25	20	mA
Peak forward current	I _{FP}	60 * ¹	50 * ²	50 * ²	50 * ²	60 * ¹	mA
Reverse voltage	V _R	5	5	5	5	5	V
Operating temperature	T _{opr}	-25 to +75					
Storage temperature	T _{stg}	-30 to +85					

*1 Pulse width 1ms, duty 1 / 5

*2 Pulse width 0.1ms, duty 1 / 10

•Electrical and optical characteristics ($T_a = 25^{\circ}C$)

Parameter	Symbol	Symbol Conditions		Red _{(Hig}		ed ghtness)	Orange (High brightness		Yellow (High brightness) (NRND)		Green		Unit
			Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	
Forward voltage	V _F	I _F =10mA	2.0	2.8	2.05*	2.6*	2.05*	2.6*	2.05*	2.6*	2.1	2.8	V
Reverse current	I _R	$V_R = 3V$	-	100	-	100	-	100	-	100	-	100	μA
Peak wavelength	λ_{p}	I _F =10mA	650	-	626*	-	610*	-	589*	-	563	-	nm
Spectral line halfwidth	Δλ	I _F =10mA	40	-	18*	-	17*	-	15*	-	40	-	nm

2/5

O Not designed for radiation resistance.

* Shows the number on the condition of $I_F=20mA$.

•Luminous intensity

Parameter	λ_{p}	Туре	Min.	Тур.	Max.	Unit
Red	650	LB-602VA2	5.6	10		mad
Reu	050	LB-602VK2	5.0	16	-	mcd
Red	626	LB-602AA2	36	90		mcd
(High brightness)	020	LB-602AK2		90	-	
Orange	610	LB-602EA2	36	90		mcd
(High brightness)	010	LB-602EK2		90	-	
Yellow	589	LB-602XA2	36	90		mcd
(High brightness) (NRND)	569	LB-602XK2		90	-	
0	563	LB-602MA2	9	05		med
Green	203	LB-602MK2	9	25	-	mcd

 \bigcirc Condition I_F=10mA

Iv classification

Parameter	Туре	Item	lv cla	ssific	cation	Unit
		"上"	5.6	to	11	mcd
		" M "	9.0	to	18	mcd
Red	LB-602VA2 LB-602VK2	" N "	14	to	28	mcd
		" P "	22	to	45	mcd
		" Q "	36	to	(71)	mcd
		" Q "	36	to	71	mcd
		" R "	56	to	110	mcd
Red (High brightness)	LB-602AA2 LB-602AK2	" S "	90	to	180	mcd
		"Т"	140	to	280	mcd
		" U "	220	to	(450)	mcd
		" Q "	36	to	71	mcd
		" R "	56	to	110	mcd
Orange (High brightness)	LB-602EA2 LB-602EK2	" S "	90	to	180	mcd
		"Т"	140	to	280	mcd
		" U "	220	to	(450)	mcd
		" M "	9.0	to	18	mcd
		" N "	14	to	28	mcd
Green	LB-602MA2 LB-602MK2	" P "	22	to	45	mcd
		" Q "	36	to	71	mcd
		" R "	56	to	(110)	mcd

© Condition I_F=10mA

•Electrical and optical characteristics curves

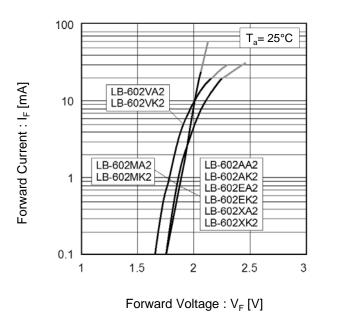
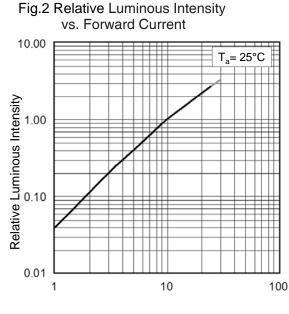
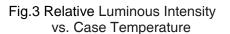


Fig.1 Forward Current vs. Forward Voltage



Forward Current : I_F [mA]



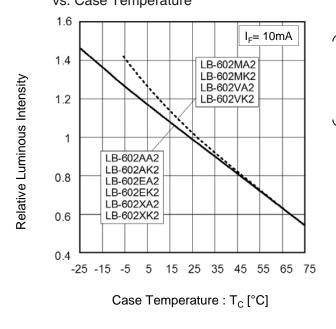
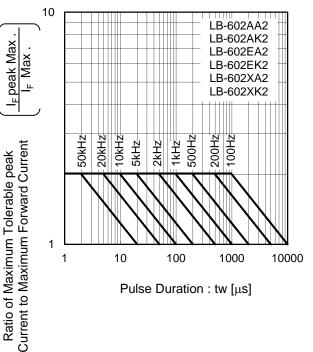


Fig.4 Ratio of Maximum Tolerable Peak Current vs. Pulse Duration



•Electrical and optical characteristics curves

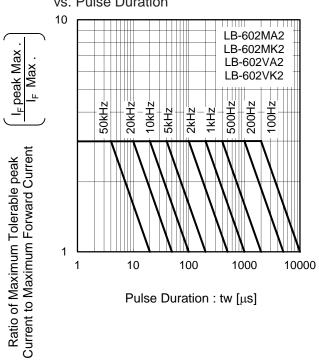
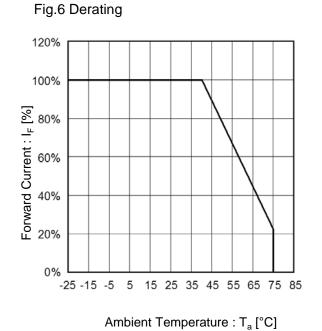


Fig.5 Ratio of Maximum Tolerable Peak Current vs. Pulse Duration



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