High efficiency, two-digit numeric displays

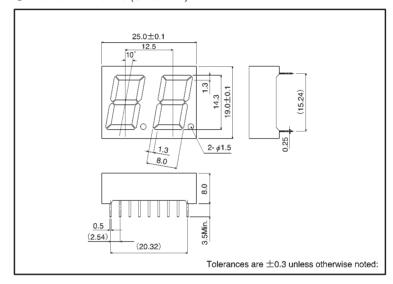
LB-602 AK2 Series

The LB-602 AK2 series of LED displays were designed for use in bright locations. The character height is 14.3 mm and four colors are available: red, orange, yellow and green.

Features

- 1) Height of character: 14.3 mm.
- 2) External dimensions: 19 \times 25 \times 8.0 mm.
- Common anode and common cathode configurations are available for each color.
- 4) The package surface is painted black and the segments are colored the display color.
- 5) High luminance, clear display.

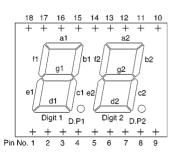
External dimensions (Units: mm)



Selection guide

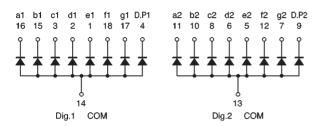
Emitting color Common	Red	Orange	Yellow	Green		
Anode	LB-602VA2	LB-602DA2	LB-602YA2	LB-602MA2		
Cathode	LB-602VK2	LB-602DK2	LB-602YK2	LB-602MK2		

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"		

Internal circuit schematic (example of common anode)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Cymbol	Red	Orange	Yellow	Green	Unit	
	Symbol	LB-602VA2 / VK2	LB-602DA2 / DK2	B-602DA2 / DK2 LB-602YA2 / YK2 LB-602MA2 / I			
Power dissipation	Pp	960	960	960	960	mW	
Power dissipation	P⊳/ seg	60	60	60	60	mW	
Forward current	lf	20	20	20	20	mA	
Peak forward current	IFP	60*	60*	60*	60*	mA	
Reverse voltage	VR	5	5	5	5	V	
Operating temperature	Topr		°C				
Storage temperature	Tstg		°C				

^{*} Pulse width 1ms duty 1 / 5

●Electrical and optical characteristics (Ta = 25°C)

Parameter Symbol	Cumbal	nbol Conditions	Red		Orange		Yellow			Green			Limit		
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Мах.	Unit	
Forward voltage	VF	I=10mA	_	2.0	2.8	_	2.0	2.8	_	2.1	2.8	_	2.1	2.8	V
Reverse current	lR	V _R =5V	_	_	100	_	_	100	_	_	100	_	_	100	μΑ
Peak wavelength	λР	I⊧=10mA	_	650	_	_	610	_	_	585	_	_	563	_	nm
Spectral line half width	Δλ	I=10mA	_	40	_	_	40	_	_	40	_	_	40	_	nm

ONot designed for radiation resistance.

Luminous intensity

Color	λР	Туре	Min.	Тур.	Max.	Unit
Red	650	LB-602VA2	5.6	16	_	mcd
	650	LB-602VK2	5.6			
Orange	610	LB-602DA2	3.6	10	_	mcd
		LB-602DK2	3.6			
Yellow	585	LB-602YA2	3.6	10		
		LB-602YK2	3.0		_	mcd
Green	563	LB-602MA2	9	25		
		LB-602MK2	9		_	mcd

Note: Measured at IF = 10mA