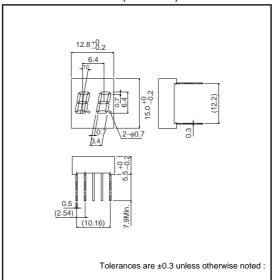
High efficiency, two-digit numeric displays LB-202BL Series

The LB-202BL series are small, two-digit numeric displays with a character height of 6.4 mm. These displays can be combined with appropriate displays in the three-digit LB-203 BL series to form a multi-digit display with an equal pitch interval between characters.

Features

- 1) Four colors are available: red, orange, yellow, and oreen.
- 2) Common anode and common cathode configurations are available.
- 3) Dynamic lighting system to minimize the number of pins.
- 4) The package surface is painted black and the segments are colored the display color.

●External Dimensions (Units: mm)

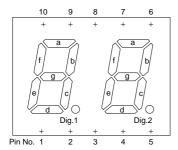


Selection guide

Emitting color Common	Red	Orange	Yellow	Green
Anode	LB-202VB	LB-202DB *	LB-202YB *	LB-202MB
Cathode	LB-202VL	LB-202DL *	LA-202YL *	LB-202ML

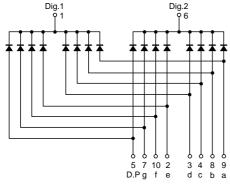
^{*} Order-based production.

Pin assignments



Pin No.	Function				
1	Digit 1 Common				
2	Segment "e"				
3	Segment "d"				
4	Segment "c"				
5	D.P				
6	Digit 2 Common				
7	Segment "g"				
8	Segment "b"				
9	Segment "a"				
10	Seament "f"				

●Internal circuit schematic (example of common cathode)



● Absolute maximum ratings (Ta=25°C)

<u> </u>								
Parameter	Symbol	Red	Orange	Yellow	Green	Unit		
	Symbol	LB-202VB / VL	LB-202DB / DL	LB-202YB / YL	LB-202MB / ML	Offic		
Power dissipation	P□	640	640	640	640	mW		
Power dissipation	P₀ / seg	40	40	40	60	mW		
Forward current	lF	15	15	15	20	mA		
Peak forward current	I FP	60*	60*	60*	60*	mA		
Reverse voltage	VR	3	3	3	3	V		
Operating temperature	Topr		°C					
Storage temperature	Tstg		°C					

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

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

Parameter Symbol	Conditions	Red		Orange		Yellow		Green			Unit				
		Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	UTIIL	
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 =3V	-	_	100	_	-	100	-	_	100	-	-	100	μА
Peak wavelength	λР	I=10mA	-	650	_	_	610	_	_	585	_	-	563	_	nm
Spectral line half width	Δλ	I=10mA	-	40	_	_	40	_	_	40	_	ı	40	-	nm

Not designed for radiation resistance.

Luminous intensity

Color	λρ	Type	Min.	Typ.	Max.	Unit
		LB-202VB		6.3	_	mcd
Red	650	LB-202VL	2.2			
Orange	610	LB-202DB		6.3	-	_
		LB-202DL	2.2			mcd
Yellow	585	LB-202YB		6.3	-	mcd
		LB-202YL	2.2			
Green	563	LB-202MB	0.0	6.3	-	
		LB-202ML	2.2			mcd

Note : Measured at I_F=10mA

Find price and stock options from leading distributors for LB-202VB on Findchips.com:

https://findchips.com/search/LB-202VB

Find CAD models and details for this part:

https://findchips.com/detail/lb-202vb/ROHM-Semiconductor