LED displays

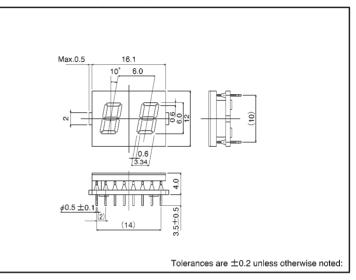
High efficiency, two-digit numeric displays LB-202 DN Series

The LB-202 DN series were designed to meet the need for multi-digit numeric displays. These two-digit LED numeric displays use GaAsP on GaP for the emitting material (with the exception of green) and have a character height of 6.0 mm.

Features

- 1) Height of character : 6.0 mm.
- Common anode and common cathode configurations are available for each color.
- 3) High-efficiency reflectors are used to achieve a bright, clear display.

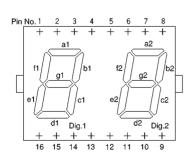
External dimensions (Units: mm)



Selection guide

Emitting color Common	Red	Orange	Yellow	Green
Anode	LB-202VD	LB-202DD	LB-202YD	LB-202MD
Cathode	LB-202VN	LB-202DN	LB-202YN	LB-202MN

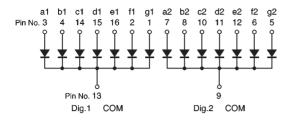
Pin assignments



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



Internal circuit schematic (example of common cathode)



•Absolute maximum ratings (Ta = 25° C)

Parameter	Symbol	Red	Orange	Yellow	Green	Unit	
	Symbol	LB-202VD / VN	.B-202VD / VN LB-202DD / DN LB-202YD / YN LB-202MD / MN				
Power dissipation	Po	784	784	784	784	mW	
Power dissipation	P⊳/seg	56	56	56	56	mW	
Forward current	lF	20	20	20	20	mA	
Peak forward current	IFP	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	Sumbol	Oneditions	Red		Orange		Yellow			Green			Unit		
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit	
Forward voltage	VF	I⊧=10mA	-	2.1	2.8	-	2.1	2.8	-	2.1	2.8	—	2.1	2.8	V
Reverse current	IR	V _R =3V	-	-	100	-	-	100	-	_	100	-	-	100	μA
Peak wavelength	λp	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	λP	Туре	Min.	Тур.	Max.	Unit
Red		LB-202VD				
	650	LB-202VN	1.4	4.0	_	mcd
Orange	610	LB-202DD		6.3	_	mcd
		LB-202DN	2.2			
Yellow	585	LB-202YD	1.4	4.0		una de al
		LB-202YN	1.4	4.0	_	mcd
Green	563	LB-202MD	26	10		mod
		LB-202MN	3.6		_	mcd

Note: Measured at IF = 10mA

