

High efficiency, two-digit numeric displays

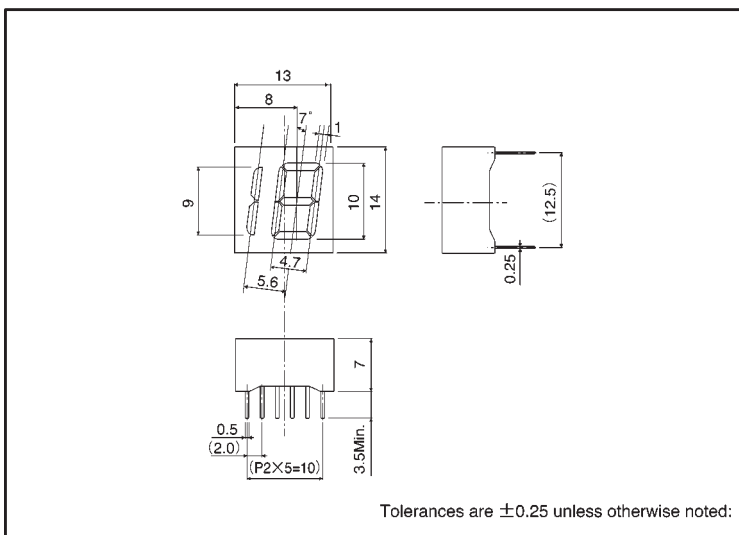
LB-402 CM Series

The LB-402 CM series are two-digit LED numeric displays with a character height of 10 mm. These displays were designed for use as counter displays, and are housed in a compact case of 14 × 13 mm.

●Features

- 1) Height of character: 10 mm.
- 2) High efficiency in a compact package.
- 3) Two colors, red and green, are available for a wide range of applications.

●External dimensions (Units: mm)

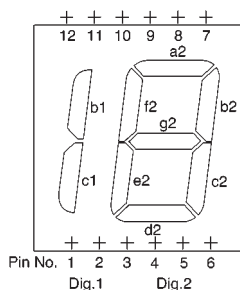


●Selection guide

Emitting color	Red	Green
Common		
Anode	LB-402VC*	LB-402MC
Cathode	LB-402VM*	LB-402MM

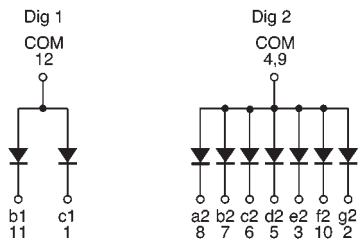
* Settings for high luminance specifications are also available.

●Pin assignments



Pin No.	Function
1	Segment "c1"
2	Segment "g2"
3	Segment "e2"
4	Digit 2 Common
5	Segment "d2"
6	Segment "c2"
7	Segment "b2"
8	Segment "a2"
9	Digit 2 Common
10	Segment "f2"
11	Segment "b1"
12	Digit 1 Common

●Internal circuit schematic (example of common anode)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Red	Green	Unit
		LB-402VC / VM	LB-402MC / MM	
Power dissipation	P _D	360	360	mW
Power dissipation	P _D / seg	40	40	mW
Forward current	I _F	15	15	mA
Peak forward current	I _{FP}	60*	60*	mA
Reverse voltage	V _R	3	3	V
Operating temperature	T _{opr}	-25~+75		°C
Storage temperature	T _{stg}	-30~+85		°C

* Pulse width 1ms duty 1 / 5

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

Parameter	Symbol	Conditions	Red			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	V _F	I _F =10mA	—	2.0	2.8	—	2.1	2.8	V
Reverse current	I _R	V _R =3V	—	—	100	—	—	100	μA
Peak wavelength	λ _P	I _F =10mA	—	650	—	—	563	—	nm
Spectral line half width	Δλ	I _F =10mA	—	40	—	—	40	—	nm

⊙Not designed for radiation resistance.

●Luminous intensity

Color	λ _P	Type	Min.	Typ.	Max.	Unit
Red	650	LB-402VC	3.6	10	—	mcd
		LB-402VM				
Green	563	LB-402MC	5.6	16	—	mcd
		LB-402MM				

Note: Measured at I_F = 10mA