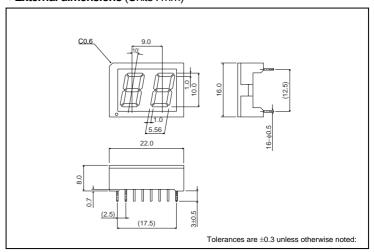
# High efficiency, two-digit numeric displays LB-402FP Series

The LB-402FP series were designed to meet the need for multi-digit numeric displays. Featuring excellent visibility, these two-digit LED numeric displays have a character height of 10mm. A colored cover case is attached to the surface of the display.

#### Features

- 1) Two colors are available: red and green.
- 2) Common anode and common cathode configurations are available.
- Each segment has independent pin connections and making static drive is possible.
- Excellent visibility. Uniform brightness. Wide view angle.
  - Character shapes cannot be seen when not illuminated.

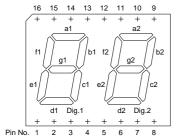
### ●External dimensions (Units : mm)



#### Selection guide

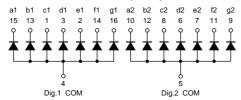
Emitting color Common	Red	Green
Anode	LB-402VF	LB-402MF
Cathode	LB-402VP	LB-402MP

#### Pin assignments



Pin No.	Function	Pin No.	Function
1	Segment "c1"	9	Segment "g2"
2	Segment "e1"	10	Segment "a2"
3	Segment "d1"	11	Segment "f2"
4	Digit1 Common	12	Segment "b2"
5	Digit2 Common	13	Segment "b1"
6	Segment "d2"	14	Segment "f1"
7	Segment "e2"	15	Segment "a1"
8	Segment "c2"	16	Seament "a1"

# ●Internal circuit schematic (example of common anode)



# ● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Red	Green	Unit	
Parameter	Syllibol	LB-402VF / VP	LB-402MF / MP		
Power dissipation	P□	840	840	mA	
Power dissipation	P <sub>D</sub> / seg	60	mW / seg		
Forward current	lF	20	20	mA	
Peak forward current	<b>I</b> FP	60	60	mA*	
Reverse voltage	VR	5	5	V	
Operating temperature	Topr	-25-	°C		
Storage temperature	Tstg	-30-	°C		

<sup>\*</sup> Pulse width 1ms duty 1 / 5

## • Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	Red			Green			Unit
			Min.	Тур.	Max.	Min.	Тур.	Max.	Offic
Forward voltage	VF	I <sub>F</sub> = 10mA	_	2.0	2.8	_	2.1	2.8	V
Reverse current	lr	$V_R = 3V$	-	_	100	-	-	100	μΑ
Peak wavelength	λР	I <sub>F</sub> = 10mA	-	650	_	_	563	_	nm
Spectral line half width	Δλ	I <sub>F</sub> = 10mA	-	40	-	_	40	-	nm

O Not designed for radiation resistance

# Luminous intensity

Color	λР	Туре	Min.	Тур.	Max.	Unit
Red 650	GEO.	LB-402VF	2.2	5.6	-	mcd
	650	LB-402VP				
Green 56	F62	LB-402MF	2.2	5.6	_	mcd
	363	LB-402MP				

Note: Measured at IF = 10mA