

High efficiency, two-digit numeric displays

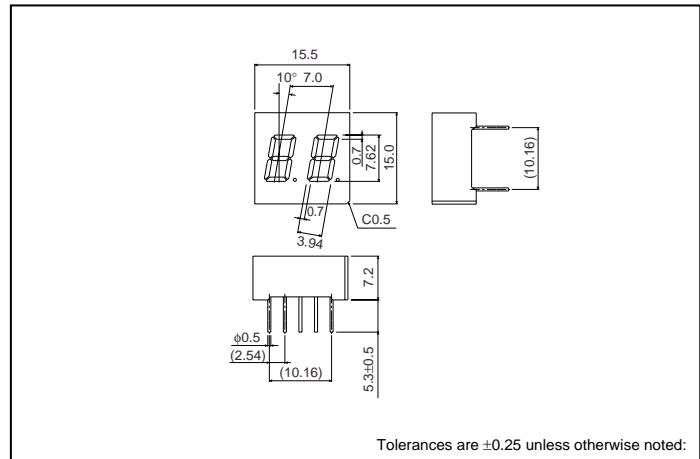
LB-302FP Series

The LB-302FP series were designed to meet the need for multi-digit numeric displays. These two-digit LED numeric displays have a character height of 7.62 mm.

●Features

- 1) Height of character : 7.62 mm
- 2) High efficiency in a compact package.
- 3) Common anode and common cathode configurations are available for red, orange and green.
- 4) The package surface is painted black and the segments are milky white.

●External dimensions (Units : mm)

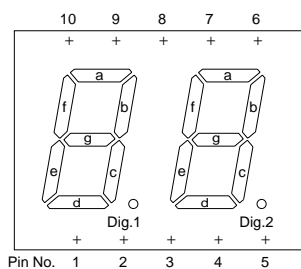


●Selection guide

Emitting color	Common		
	Red	Orange	Green
Anode	LB-302VF	LB-302DF*	LB-302MF
Cathode	LB-302VP	LB-302DP*	LB-302MP

*Order-based production.

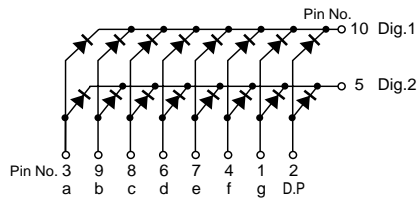
●Pin assignments



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

LED displays

● Internal circuit schematic (example of common cathode)



● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Red	Orange	Green	Unit
		LB-302VF / VP	LB-302DF / DP	LB-302MF / MP	
Power dissipation	P _D	800	800	960	mW
Power dissipation	P _D / seg	50	50	60	mW
Forward current	I _F	15	15	20	mA
Peak forward current	I _{FP}	60*	60*	60*	mA
Reverse voltage	V _R	5	5	5	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			Orange			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	V _F	I _F = 10mA	-	2.0	2.8	-	2.0	2.8	-	2.1	2.8	V
Reverse current	I _R	V _R = 5V	-	-	100	-	-	100	-	-	100	μA
Peak wavelength	λ _P	I _F = 10mA	-	650	-	-	610	-	-	563	-	nm
Spectral line half width	Δλ	I _F = 10mA	-	40	-	-	40	-	-	40	-	nm

© Not designed for radiation resistance.

● Luminous intensity

Color	λ _P	Type	Min.	Typ.	Max.	Unit
Red	650	LB-302VF / VP	2.2	6.3	-	mcd
Orange	610	LB-302DF / DP	2.2	6.3	-	mcd
Green	563	LB-302MF / MP	2.2	6.3	-	mcd

Note : Measured at I_F = 10mA