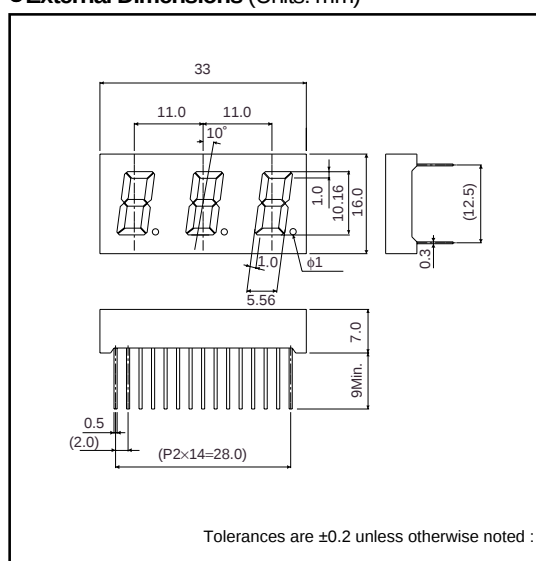


LB-403DN Series

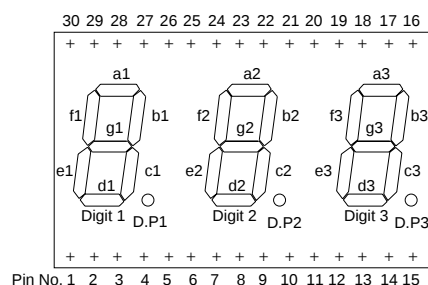
●External Dimensions (Units: mm)

- 1) Height of character: 10.16 mm
- 2) Long 9 mm leads (minimum) on bottom of case.
- 3) High efficiency reflectors are used to achieve a bright, clear display.
- 4) The package surface is painted black and the segments are colored the display color.



Emitting color Common	Red	Orange	Green
Anode	LB-403VD	LB-403DD *	LB-403MD
Cathode	LB-403VN	—	LB-403MN

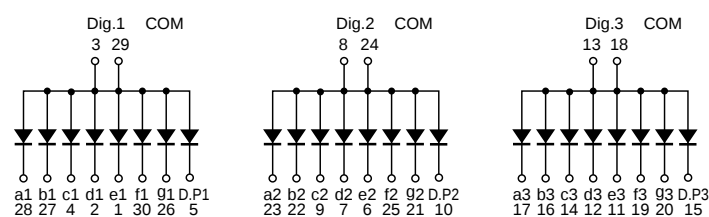
- Pin assignments



Pin No.	Function	Pin No.	Function
1	Segment "e1"	16	Segment "b3"
2	Segment "d1"	17	Segment "a3"
3	Digit 1 Common	18	Digit 3 Common
4	Segment "c1"	19	Segment "f3"
5	D.P1	20	Segment "g3"
6	Segment "e2"	21	Segment "g2"
7	Segment "d2"	22	Segment "b2"
8	Digit 2 Common	23	Segment "a2"
9	Segment "c2"	24	Digit 2 Common
10	D.P2	25	Segment "f2"
11	Segment "e3"	26	Segment "g1"
12	Segment "d3"	27	Segment "b1"
13	Digit 3 Common	28	Segment "a1"
14	Segment "c3"	29	Digit 1 Common
15	D.P3	30	Segment "f1"

LED displays

●Internal circuit schematic (example of common anode)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Orange	Green	Unit
		LB-403VD / VN	LB-403DD	LB-403MD / MN	
Power dissipation	P_D	1344	1344	1344	mW
Power dissipation	P_D / seg	56	56	56	mW
Forward current	I_F	20	20	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	$I_F=10\text{mA}$	—	2.0	2.8	—	2.0	2.8	—	2.1	2.8	V
Reverse current	I_R	$V_R=3\text{V}$	—	—	100	—	—	100	—	—	100	μA
Peak wavelength	λ_P	$I_F=10\text{mA}$	—	650	—	—	610	—	—	563	—	nm
Spectral line half width	$\Delta\lambda$	$I_F=10\text{mA}$	—	40	—	—	40	—	—	40	—	nm

© Not designed for radiation resistance.

●Luminous intensity

Color	λ_P	Type	Min.	Typ.	Max.	Unit
Red	650	LB-403VD	3.6	10	—	mcd
		LB-403VN				
Orange	610	LB-403DD	2.2	6.3	—	mcd
Green	563	LB-403MD	5.6	16	—	mcd
		LB-403MN				

Note : Measured at $I_F=10\text{mA}$