LED displays

High efficiency, three-digit numeric displays 勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-54151736 **LB-603 FP Series**

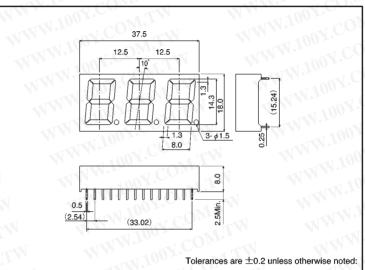
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The LB-603 FP series were designed to meet the need for multi-digit numeric displays. These LED numeric displays use GaAsP on GaP for the emitting material (with the exception of green) and are housed in an epoxy resin package. They are three-digit displays with a character height of 14.3 mm.

Features

- 1) Height of character : 14.3 mm.
- 2) The package surface is painted black and the segments are colored the display color.
- 3) High efficiency reflectors are used to achieve a bright, clear display.

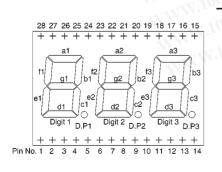
External dimensions (Units: mm)



Selection guide

Emitting color Common	Red	Green
Anode	LB-603VF	LB-603MF
Cathode	LB-603VP	LB-603MP
Cathode	LB-603VP	

Pin assignments



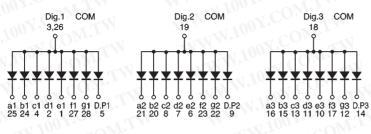
Pin No.	Function	Pin No.	Function
1 U	Segment "e1"	15	Segment "b3"
2	Segment "d1"	16	Segment "a3"
3	Digit 1 Common	17	Segment "f3"
4	Segment "c1"	18	Digit 3 Common
5	D.P1	19	Digit 2 Common
6	Segment "e2"	20	Segment "b2"
7	Segment "d2"	21	Segment "a2"
8	Segment "c2"	22	Segment "g2"
9	D.P2	23	Segment "f2"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



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Internal circuit schematic (example of common anode)



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Absolute maximum ratings (Ta = 25°C)

Deve de la V.C.V	Or we had	Red	Green		
Parameter	Symbol	LB-603VF / VP	LB-603MF / MP	Unit	
Power dissipation	PD	960	1440	mW	
Power dissipation	Pp / seg	40	60	mW	
Forward current	lF.	15	20	mA	
Peak forward current	IFP IFP	60* 🔨	60*	mA	
Reverse voltage	VR	3	3	V	
Operating temperature	Topr	-25-	C		
Storage temperature	Tstg	-30-	ĉ		

Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	Red			Green			1 1
			Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
Forward voltage	VF	I⊧=10mA	69	2.0	2.8	-	2.1	2.8	V
Reverse current	IR	V _R =3V	€.	12	100	-		100	μA
Peak wavelength	λP	I⊧=10mA	TC.	650	-	_	563		nm
Spectral line half width	Δλ	I⊧=10mA	<u> </u>	40	<u></u>	2	40	-	nm

Luminous intensity

◎Not designed for radi	ation resistanc	e.	COM	WT	-	WWW.
Luminous intens	sity					
Color	λp	Туре	Min.	Тур.	Max.	Unit
Red	650	LB-603VF	5.6	16	_	mcd
		LB-603VP				
Green	563	LB-603MF	9	25	_	
		LB-603MP				mcd

Note: Measured at IF = 10mA

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Appendix

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