LED displays

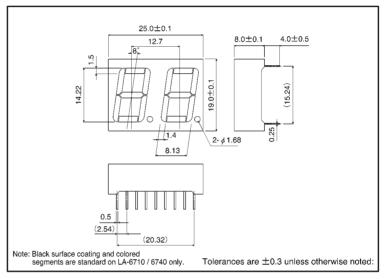
High efficiency, two-digit numeric displays LB-6000 Series

The LB-6000 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 two-digit displays with a character height of 14.22 mm.

Features

- 1) Height of character: 14.22 mm.
- Common anode and common cathode configurations are available for each color.
- Each segment has independent pin connections and static drive is possible.
- 4) High efficiency reflectors are used to achieve a bright, clear display.
- The package surface is painted gray and the segments are milky white.

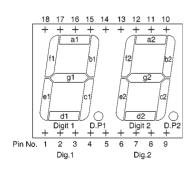
External dimensions (Units: mm)



Selection guide

Emitting color Common	Red	Orange	Yellow	Green		
Anode	LB-6710	LB-6610	LB-6810	LB-6410		
Cathode	LB-6740	LB-6640	LB-6840	LB-6440		

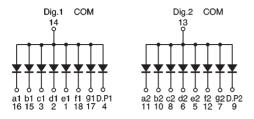
Pin assignments



Pin No.	Function	Pin No.	Function		
1	Segment "e1"	10	Segment "b2"		
2	Segment "d1"	11	Segment "a2"		
3	Segment "c1"	12	Segment "f2"		
4	D.P1	13	Digit 2 Common		
5	Segment "e2"	14	Digit 1 Common		
6	Segment "d2"	15	Segment "b1"		
7	Segment "g2"	16	Segment "a1"		
8	Segment "c2"	17	Segment "g1"		
9	D.P2	18	Segment "f1"		



Internal circuit schematic (example of common anode)



•Absolute maximum ratings (Ta = 25° C)

Parameter	Symbol	Red	Orange	Yellow	Green	Unit	
	Symbol	LB-6710 / 6740	LB-6610 / 6640	LB-6810 / 6840	LB-6410 / 6440		
Power dissipation	PD	960	960	960	960	mW	
Power dissipation	P⊳/ seg	60	60	60	60	mW	
Forward current	lF	20	20	20	20	mA	
Peak forward current	IFP	60*	60*	60*	60*	mA	
Reverse voltage	VR	5	5	5	5	V	
Operating temperature	Topr		°C				
Storage temperature	Tstg		Ĉ				

* Pulse width 1ms duty 1 / 5

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

Parameter Symbol	Sumbol	hal Canditiana	Red		Orange		Yellow			Green			Unit		
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit	
Forward voltage	VF	I⊧=10mA	-	2.0	2.8	—	2.0	2.8	-	2.1	2.8	-	2.1	2.8	V
Reverse current	IR	V _R =5V	-	—	100	—	_	100	-	—	100	-	—	100	μA
Peak wavelength	λp	I⊧=10mA	-	650	-	_	610	—	_	585	-	-	563	-	nm
Spectral line half width	Δλ	I⊧=10mA	_	40	_	_	40	_	_	40	_	_	40	_	nm

ONot designed for radiation resistance.

Luminous intensity

Color	λр	Туре	Min.	Тур.	Max.	Unit
Red	650	LB-6710	5.6	10	_	-
	000	LB-6740	5.0	16		mcd
Orange	610	LB-6610	3.6	10	_	mod
		LB-6640	3.0	10		mcd
Yellow	585	LB-6810	3.6	10	_	mod
		LB-6840	3.0	10		mcd
Green	563	LB-6410	5.6	10	_	mod
		LB-6440	5.0	16		mcd

Note: Measured at IF = 10mA

