16×16 matrix displays

LM-1256 Series

The LM-1256 series are 16×16 matrix displays which can be used in a wide variety of applications, including alphabet, numeric, symbol, and red are available.

Applications

Light sources for displays

●Features

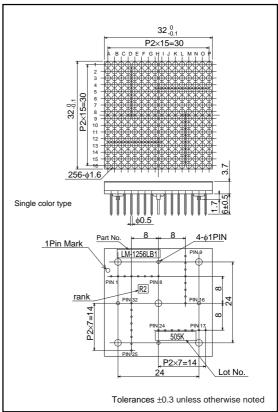
- 16×16 dot matrix Circlar emitters.
- 2) External dimensions: 32×32×5.4mm
- 3) Emitters: Circular, 1.6mm diameter.
- 4) Black package.

Selection guide

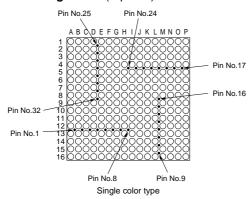
Emitting color Common	Red*
Anode	LM-1256LB1

^{*} Bright red

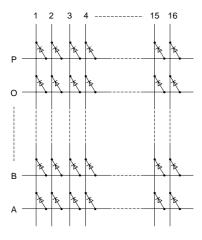
●Dimensions (Unit : mm)



●Pin assignments (Top view)



●Internal circuit schematic



Single color type(LB1)

●Pin assignment table

Single-color type(LB1)

Pin No.	Connection	Pin No.	Connection
1	A Cathode	17	P Cathode
2	B Cathode	18	O Cathode
3	C Cathode	19	N Cathode
4	D Cathode	20	M Cathode
5	E Cathode	21	L Cathode
6	F Cathode	22	K Cathode
7	G Cathode	23	J Cathode
8	H Cathode	24	I Cathode
9	16 Anode	25	1 Anode
10	15 Anode	26	2 Anode
11	14 Anode	27	3 Anode
12	13 Anode	28	4 Anode
13	12 Anode	29	5 Anode
14	11 Anode	30	6 Anode
15	10 Anode	31	7 Anode
16	9 Anode	32	8 Anode

● Absolute maximum ratings (Ta=25°C)

Single-color type

Parameter	Symbol	LB1	Unit
Parameter		Red*2	Offic
Power dissipation	Po	50	mW/dot
Forward current	lF	20	mA/dot
Peak forward current	IFP	60*1	mA/dot
Reverse voltage	VR	4	V
Operating temperature	Topr	-20 to +50	°C
Storage temperature	Tstg	-30 to +75	°C

^{*1} Pulse width 1msec duty 1 / 16 *2 Bright red

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

Single-color type

		Conditions	LB1			Unit
Parameter	Symbol		Red*1			
			Min.	Тур.	Max.	
Forward voltage	VF	I=20mA	_	1.75	2.5	V
Reverse current	lR	VR=3V	_	-	100	μΑ
peak wavelength	λР	I=20mA	_	660	_	nm
Spectral half- power bandwidth	Δλ	I _F =20mA	_	25	_	nm

Luminous intensity

Color	Туре	Min.	Тур.	Max.	Unit
Red*1	LB1	22	56	-	mcd

Note: *1Measured at IF = 20mA

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