

LED displays

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 alpha-bet, numeric, symbol, and red are available.

●Applications

Light sources for displays

●Features

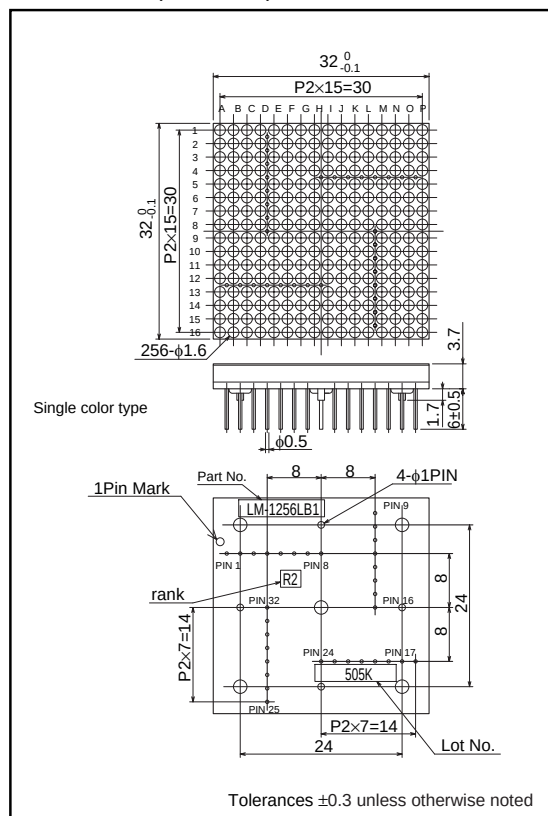
- 1) 16×16 dot matrix
Circular emitters.
- 2) External dimensions : 32×32×5.4mm
- 3) Emitters : Circular, 1.6mm diameter.
- 4) Black package.

●Selection guide

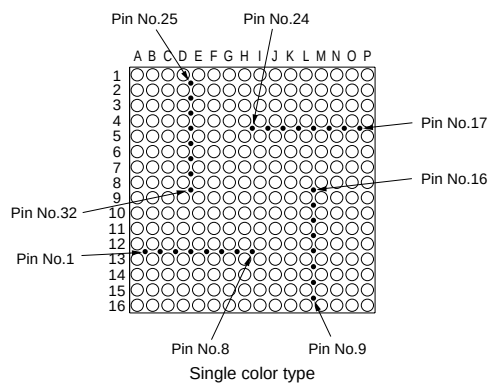
Emitting color	Red*
Common	
Anode	LM-1256LB1

* Bright red

●Dimensions (Unit : mm)

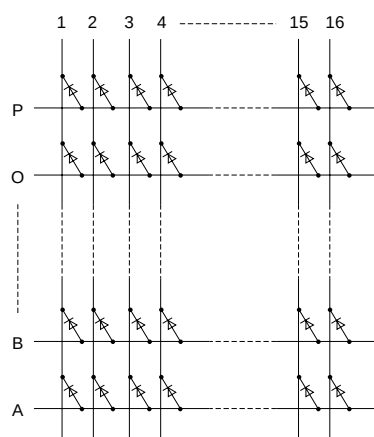


●Pin assignments (Top view)



LED displays

●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
		Red*2	
Power dissipation	P _D	50	mW/dot
Forward current	I _F	20	mA/dot
Peak forward current	I _{FP}	60*1	mA/dot
Reverse voltage	V _R	4	V
Operating temperature	T _{opr}	-20 to +50	°C
Storage temperature	T _{stg}	-30 to +75	°C

*1 Pulse width 1msec duty 1 / 16

*2 Bright red

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

Single-color type

Parameter	Symbol	Conditions	LB1			Unit
			Red*1			
			Min.	Typ.	Max.	
Forward voltage	V _F	I _F =20mA	—	1.75	2.5	V
Reverse current	I _R	V _R =3V	—	—	100	μA
peak wavelength	λ _P	I _F =20mA	—	660	—	nm
Spectral half-power bandwidth	Δλ	I _F =20mA	—	25	—	nm

©Not designed for radiation resistance.

*1 I_F = 20mA

●Luminous intensity

Color	Type	Min.	Typ.	Max.	Unit
Red*1	LB1	22	56	—	mcd

Note : *1Measured at I_F = 20mA

Appendix

Notes

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