# 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

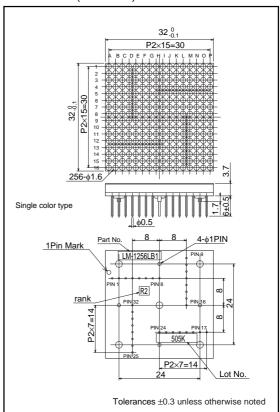
- 16×16 dot matrix Circlar emitters.
- 2) External dimensions: 32×32×5.4mm
- 3) Emitters: Circular, 1.6mm diameter.
- 4) Black package.

# Selection guide

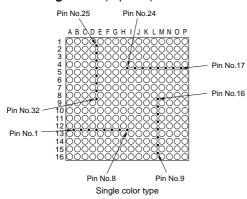
Emitting color Common	Red*
Anode	LM-1256LB1

<sup>\*</sup> Bright red

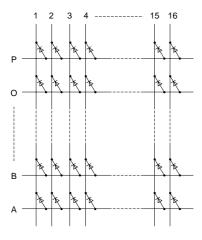
#### ●Dimensions ( Unit : mm )



### ●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

<sup>\*1</sup> 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 <sub>F</sub> =20mA	_	25	_	nm

# Luminous intensity

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

Note: \*1Measured at IF = 20mA

#### Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any
  means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the
  product described in this document are for reference only. Upon actual use, therefore, please request
  that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or
  otherwise dispose of the same, no express or implied right or license to practice or commercially
  exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

#### About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.

