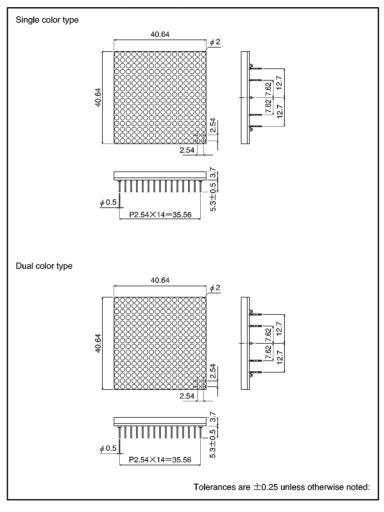
16×16 matrix displays LM-2256 Series

The LM-2256 series are 16×16 matrix displays which can be used in a wide variety of applications, including alphabet, numeric, symbol, and graphic displays. Red and green are available, as well as a dual-color red/green type.

Applications Light sources for displays

Features

- 1) 16×16 dot matrix Circular emitters.
- 2) External dimensions: 40.64 \times 40.64 \times 5 mm
- 3) Emitters: Circular, 2.0 mm diameter
- 4) Black package.

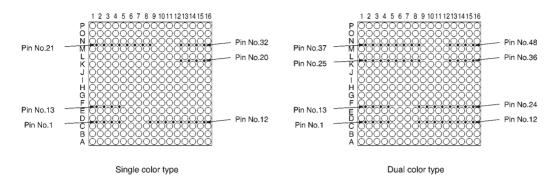


Selection guide

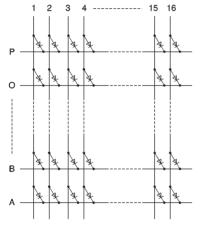
Emitting color Common	Red	Green	Red / Green	
Anode	—	—	LM-2256MUB	
Cathode	LM-2256UB	LM-2256MB	—	

External dimensions (Units: mm)

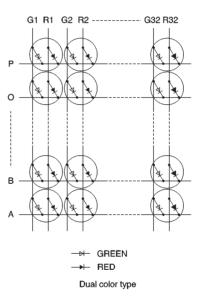
Pin assignments



Internal circuit schematic



Single color type



Pin assignment table

Single-color type

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

Dual-color type

	Dia Na Function Dia Na Function									
Pin No.	Function	Pin No.	Function							
1	A Cathode	25	R1 Anode							
2	C Cathode	26	R2 Anode							
3	D Cathode	27	R3 Anode							
4	B Cathode	28	R4 Anode							
5	G9 Anode	29	R5 Anode							
6	G10 Anode	30	R6 Anode							
7	G11 Anode	31	R7 Anode							
8	G12 Anode	32	R8 Anode							
9	G13 Anode	33	J Cathode							
10	G14 Anode	34	L Cathode							
11	G15 Anode	35	K Cathode							
12	G16 Anode	36	I Cathode							
13	H Cathode	37	G1 Anode							
14	F Cathode	38	G2 Anode							
15	E Cathode	39	G3 Anode							
16	G Cathode	40	G4 Anode							
17	R9 Anode	41	G5 Anode							
18	R10 Anode	42	G6 Anode							
19	R11 Anode	43	G7 Anode							
20	R12 Anode	44	G8 Anode							
21	R13 Anode	45	O Cathode							
22	R14 Anode	46	M Cathode							
23	R15 Anode	47	N Cathode							
24	R16 Anode	48	P Cathode							

Absolute maximum ratings (Ta = 25 C) Single-color type

Parameter	Symbol	UB	MB	Unit
	Symbol	Red	Green	
Power dissipation	Po	2.88	2.88	W
Forward current	١F	15	15	mA
Peak forward current	lfp	60*	60*	mA
Reverse voltage	VR	3	3	V
Operating temperature	Topr	-20~	°C	
Storage temperature	Tstg	-25-	Ĉ	

* Pulse width 1msec duty 1 / 16

Dual-color type

Parameter	O make at	М	1 1	
Parameter	Symbol	Red	Green	Unit
Power dissipation	Po	2.7	2.7	w
Forward current	١F	15	15	mA
Peak forward current	IFP	60*	60*	mA
Reverse voltage	VR	3	3	V
Operating temperature	Topr	-20~	°C	
Storage temperature	Tstg	—25~	°C	

* Pulse width 1msec duty 1 / 16

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

Single-color type

		Conditions	UB			MB			Unit
Parameter	Symbol		Red			Green			
			Min.	Тур.	Max.	Min.	Тур.	Max.	
Forward voltage	VF	I⊧=10mA	-	2.0	2.8	-	2.1	2.8	V
Reverse current	l _R	V _R =3V	-	_	100	_	-	100	μA
Peak wavelength	λp	l⊧=10mA	-	635	-	_	563	-	nm
Spectral half- power bandwidth	λΔ	I⊧=10mA	_	40	_	_	40	_	nm

 $\bigcirc Not$ designed for radiation resistance.

Dual-color type

		Conditions	MUB						
Parameter	Symbol		Red			Green			Unit
			Min.	Тур.	Max.	Min.	Тур.	Max.	
Forward voltage	VF	I⊧=10mA	_	2.0	2.8	_	2.1	2.8	V
Reverse current	IR	V _R =3V	_	_	100	_	_	100	μA
Peak wavelength	λP	I⊧=10mA	_	635	_	_	563	_	nm
Spectral line half width	Δλ	I⊧=10mA	_	40	_	_	40	_	nm

 $\bigcirc Not$ designed for radiation resistance.

Luminous intensity

Color	Туре	Min.	Тур.	Max.	Unit
Red	UB	0.22	0.63	_	mcd
Green	MB	0.36	1.0	_	mcd
Red	MUD	0.22	0.63	_	mcd
Green	MUB	0.56	1.6	_	mcd

Note: Measured at IF = 10mA