

1.22 inch (31.0mm)

8X8 DOT MATRIX SINGLE COLOR LED DISPLAY

LED DISPLAY DATA SHEET

**P/N : M122880EWB
M123880EWB**

PREPARED BY : SAM LU

APPROVED BY : JACK WU

DATA : NOV,21,2000

REV. : 0

ACCEDE OPTOELECTRONICS CO.,LTD

1.22 inch (31.0mm)

8X8 DOT MATRIX SINGLE COLOR LED DISPLAY

DESCRIPTION

The 1.22 inch (31.0mm) height 8X8 dot matrix led display.

This device utilizes red orange LED chip.

The device has black face and white segments.

The red orange LED chip is made from GaAsP on a transparent GaP substrate.

The device is "RoHS-Qualified"

FEATURES

- Compact package
- Continuous uniform segments.
- Excellent characters appearance
- Low power requirement

DEVICES

DESCRIPTION	PART NO.	PACKAGE DIMENSION	INTERNAL CIRCUIT DIAGRAM
Common Anode	M122880EWB	Fig. 1	Fig. 2
Common Cathode	M123880EWB	Fig. 1	Fig. 2

ABSOLUTE MAXIMUM RATINGS

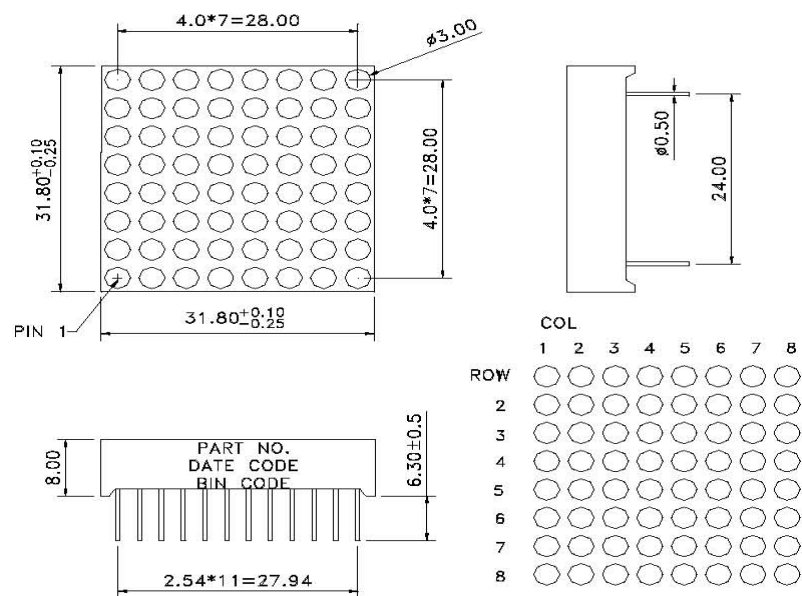
@ T_A=25°C

PARAMETER	RED ORANGE	UNIT
Power Dissipation Per Segment	65	mW
Peak Forward Current Per Segment (1/10 Duty Cycle. ,0.1ms pulse width)	100	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to+85°C	
Storage Temperature Range	-35°C to+85°C	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C		

1.22 inch (31.0mm)

8X8 DOT MATRIX SINGLE COLOR LED DISPLAY

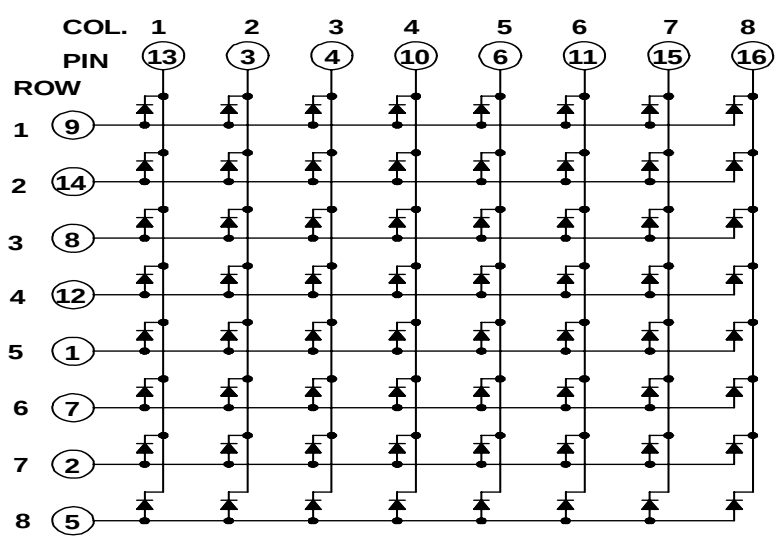
PACKAGE DIMENSIONS



NOTES:
1.Unit is millimeter;
2.Tolerance is ±0.25mm unless other noted.

Fig. 1

INTERNAL CIRCUIT DIAGRAM



COMMON CATHODE / (C.A.)

Fig. 2

1.22 inch (31.0mm)

8X8 DOT MATRIX SINGLE COLOR LED DISPLAY

PIN CONNECTION

PIN	CONNECTION
1	CATHODE E
2	CATHODE D
3	COMMON ANODE
4	CATHODE C
5	CATHODE DP
6	CATHODE B
7	CATHODE A
8	COMMON ANODE
9	CATHODE F
10	CATHODE G

ELECTRICAL/OPTICAL CHARACTERISTICS

RED ORANGE

@ T_A=25 °C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _V	0.6	1.5	—	mcd	I _F = 10 mA
Emission Wavelength	λ _p /λ _d	—	632/622	—	nm	I _F = 20 mA
Spectral Line Half-Width	Δλ	—	35	—	nm	I _F = 20 mA
Forward Voltage, Per Segment	V _F	—	2.0	2.6	V	I _F = 20 mA
Reverse Current, Per Segment	I _R	—	—	100	μA	V _R = 5 V
Luminous Intensity Matching Ratio	I _{V-m}	—	—	2:1	—	I _F = 10 mA