



Technical Data Sheet
2.3" 8*8 Dot Matrix Displays

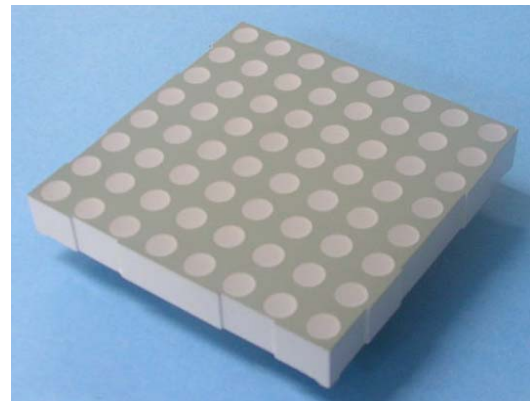
ELM-2882EWA

■ **Features :**

- Large emitting dot 0.2" diameter.
- Low power/high brightness.
- Pb free

■ **Descriptions :**

- The ELM-2882 series is a large emitting area(5.0mm diameter)LED sources configured in a 64 dots 8*8 matrix array.
- These devices are made with white dots and gray surface.



■ **Applications :**

- Instrument panels
- Digital read out display

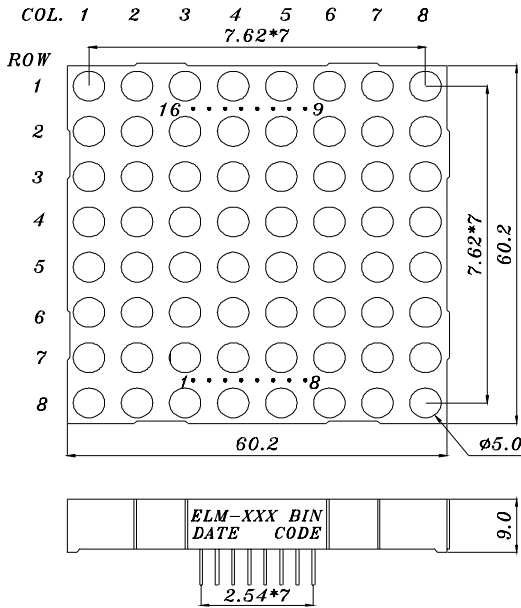
PART NO.	Chip	
	Material	Emitted Color
ELM-2882EWA	GaAsP/GaP	Orange



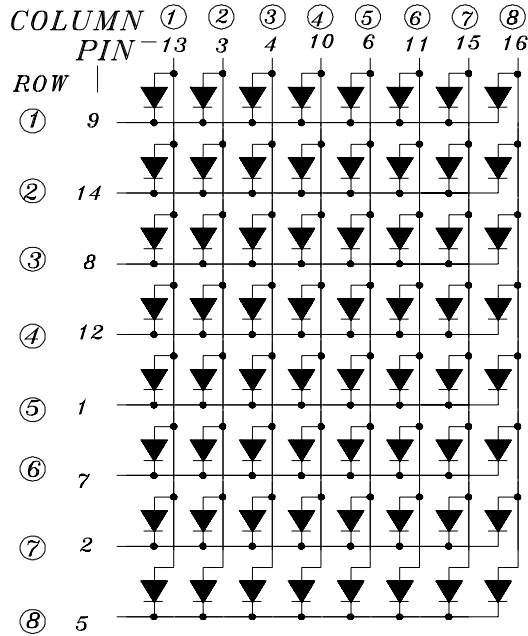
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Package Dimensions



ANODE COLUMN	
CATHODE ROW	
1 CATHODE ROW	5
2 CATHODE ROW	7
3 ANODE COLUMN	2
4 ANODE COLUMN	3
5 CATHODE ROW	8
6 ANODE COLUMN	5
7 CATHODE ROW	6
8 CATHODE ROW	3
9 CATHODE ROW	1
10 ANODE COLUMN	4
11 ANODE COLUMN	6
12 CATHODE ROW	4
13 ANODE COLUMN	1
14 CATHODE ROW	2
15 ANODE COLUMN	7
16 ANODE COLUMN	8



- Notes:**
1. All dimensions are in millimeters , tolerance is 0.25mm unless otherwise noted.
 2. Above specification may be changed without notice.
- Supplier will reserve authority on material change for above specification.

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■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Soldering Temperature	T _{sol}	260 ± 5	°C
Power Dissipation	P _d	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	I _{F(Peak)}	160	mA

■ Electronic optical characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v	2.0	4.5	----	mcd	I _F =10mA
Peak Wavelength	λ _p	----	635	----	nm	I _F =20mA
Dominant Wavelength	λ _d	----	625	----	nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ	----	45	----	nm	I _F =20mA
Forward Voltage	V _F	1.7	2.0	2.4	V	I _F =20mA
Reverse Current	I _R	----	----	10	μA	V _R =5V

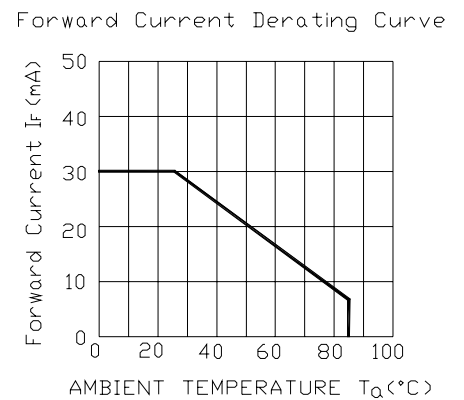
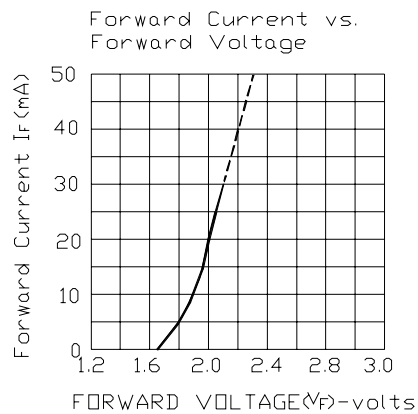
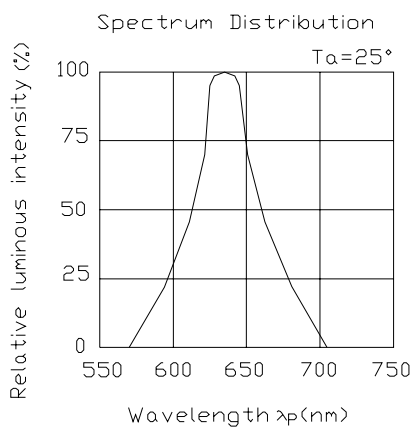


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■ Typical Electro-Optical Characteristic Curves:

CHIP Material:GaAsP/GaP
Emitted Color:Hi-Eff Red/Orange





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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30min ∫ 5 min L : -55°C 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	IF = 10 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1