

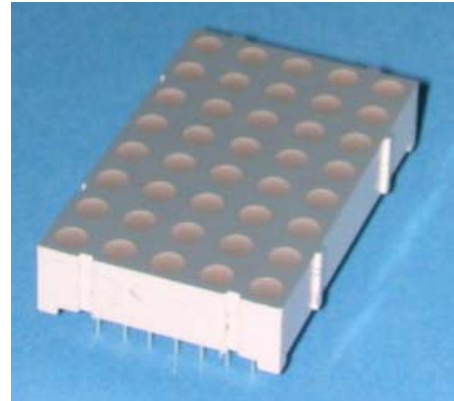


Technical Data Sheet
1.2" 5*8 Dot Matrix Displays

ELM-1082GWA

■ **Features :**

- Large emitting dot 0.12" diameter.
- Low power/high brightness.
- Pb free



■ **Descriptions :**

- The ELM-1082 series is a large emitting area(3.0mm diameter)LED sources configured in a 40 dots 5*8 matrix array.
- These devices are made with white dots and gray surface.

■ **Applications :**

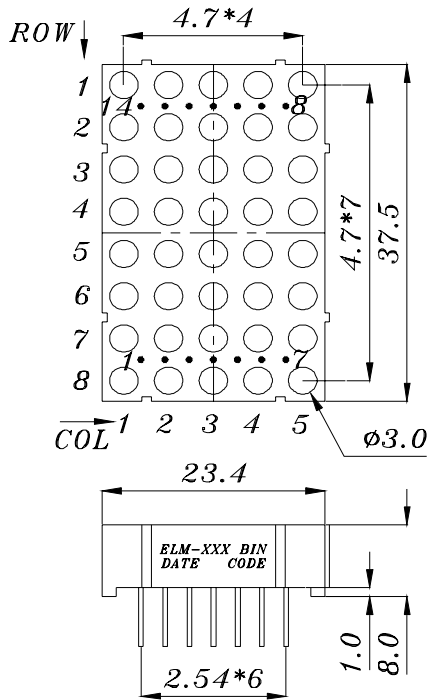
- Instrument panels
- Digital read out display

PART NO.	Chip	
	Material	Emitted Color
ELM-1082GWA	GaP	Green

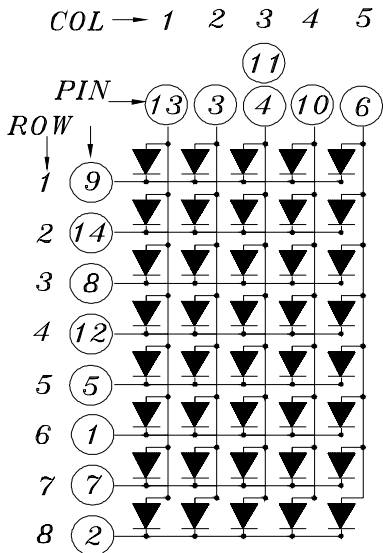
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Package Dimensions



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



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	----	565	----	nm	I _F =20mA
Dominant Wavelength	λ _d	----	570	----	nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ	----	30	----	nm	I _F =20mA
Forward Voltage	V _F	1.7	2.1	2.4	V	I _F =20mA
Reverse Current	I _R	----	----	10	μA	V _R =5V

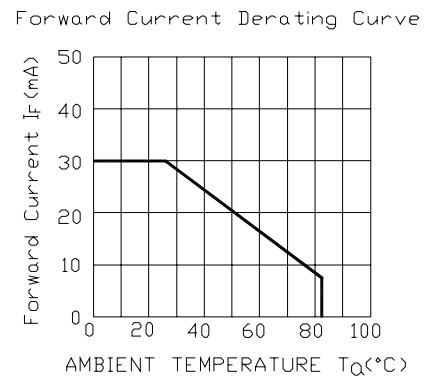
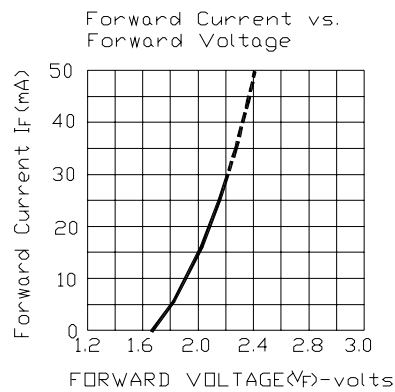
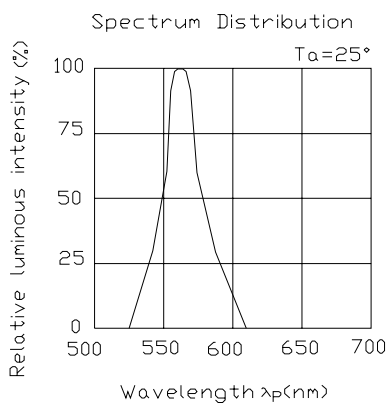


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■ Typical Electro-Optical Characteristic Curves:

GHIP Material:Gap
Emitted Color:Yellow Green





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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