



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDM-181-004 REV: 1.1

1.4" 5*8 Dot Matrix Displays

MODEL NO : ELM-1082GWA ECN : _____ Page: 1/5

■ Features :

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

■ Applications:

- Instrument panels
- Digital read out display

■ Description :

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

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELM-1082GWA	GaP	Green	C.A.

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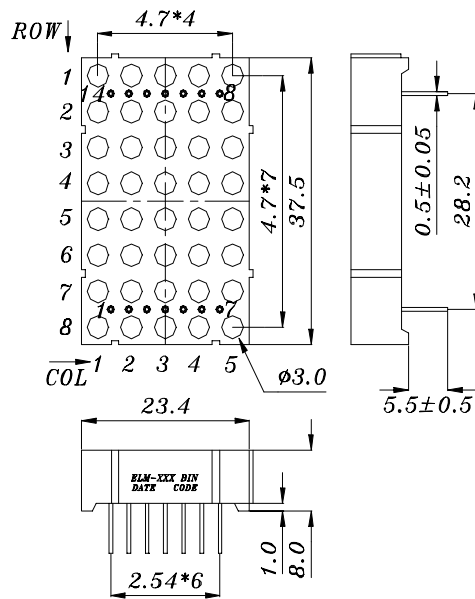
<http://www.everlight.com>



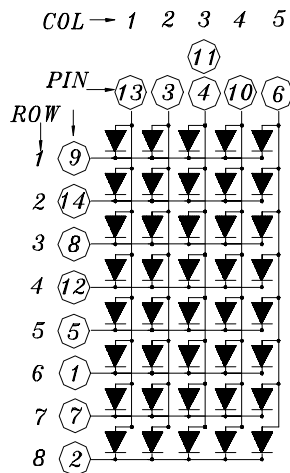
1.4" 5*8 Dot Matrix Displays

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Package Dimension:



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



NOTES:

1. All dimensions are 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	Vr	5	V
Forward Current	If	30	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	160	mA

■ Electronic optical characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	Iv	2.0	4.0	----	mcd	If=10mA
Peak Wavelength	λ p	----	565	----	nm	If=20mA
Dominant Wavelength	λ d	----	570	----	nm	If=20mA
Spectrum Radiation Bandwidth	△ λ	----	30	----	nm	If=20mA
Forward Voltage	Vf	1.7	2.1	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	μ A	Vr=5V



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■ Reliability test item and condition:

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



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