



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDM-212-014 REV: 1.0

2.3" 5*8 LED Lamp Dot Matrix Displays

MODEL NO : ELLM-2182WB/HRC-6/MS ECN : Page: 1/5

■ Features :

- Large emitting dot 0.264" diameter.
- Low power/high brightness.

■ Applications:

- Instrument panels
- Digital read out display

■ Description :

- The LM-2182series are a large emitting area(6.7mm diameter)Lamp sources configured in a 40 dots 5*8 matrix array.
- These device is made with water clear dots and black surface.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELLM-2182WB/HRC-6/MS	GaAlAs	Super Red	C.A.

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<http://www.everlight.com>

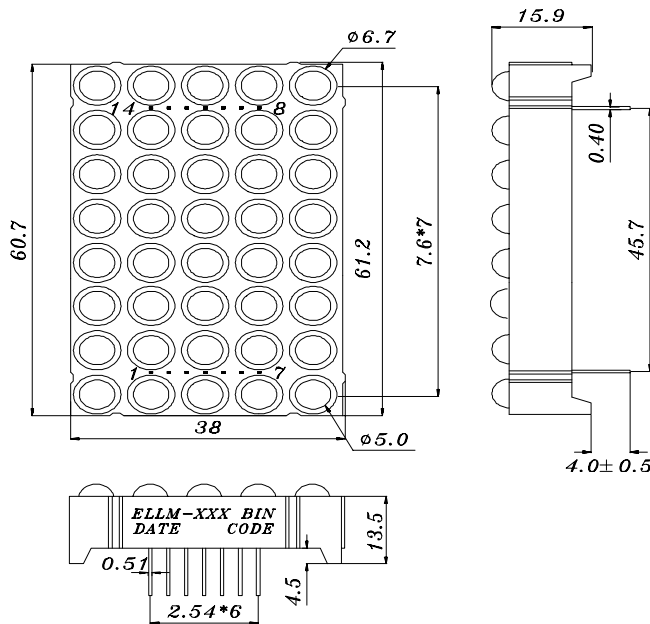


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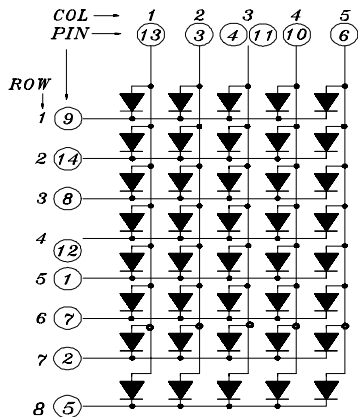
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■ Package Dimension:



CATHODE ROW
ANODE COLUMN
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 3
12 CATHODE ROW 4
13 ANODE COLUMN 1
14 CATHODE ROW 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	40	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40to+100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	110	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	180	mA

■ Electronic optical characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	Iv	250	600	----	mcd	If=20mA
Peak Wavelength	λ_p	----	660	----	nm	If=20mA
Dominant Wavelength	λ_d	----	643	----	nm	If=20mA
Spectrum Radiation Bandwidth	$\triangle \lambda$	----	20	----	nm	If=20mA
Forward Voltage	Vf	1.5	1.7	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	μA	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℃ ± 5 ℃	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85℃ 30min ∫ 5 min L : -55℃ 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55℃	1000 HRS	76 PCS	0/1
6	DC Operating Life	If = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85℃/85% RH	1000 HRS	76 PCS	0/1



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■ Typical Electro-Optical Characteristic Curves:

SR

