



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDM-200-011 REV: 1.0

## 2.0" 5\*8 Dot Matrix Displays

MODEL NO : ELM-2001SRWA ECN :            Page: 1/5

### ■ Features :

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

### ■ Applications:

- Instrument panels
- Digital readout display

### ■ Description :

- The ELM-2001 series are a large emitting area(5.0mm diameter)LED sources configured in a 35 dots 5\*7 matrix array.
- These device is made with white dots and gray surface.

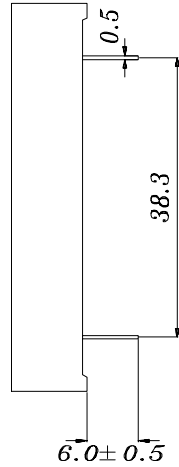
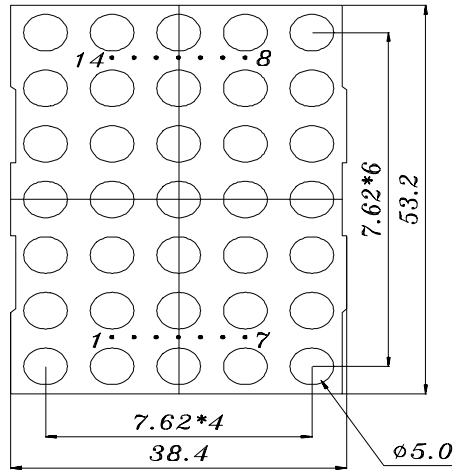
PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELM-2001SRWA	GaAlAs	Super Red	C.C.

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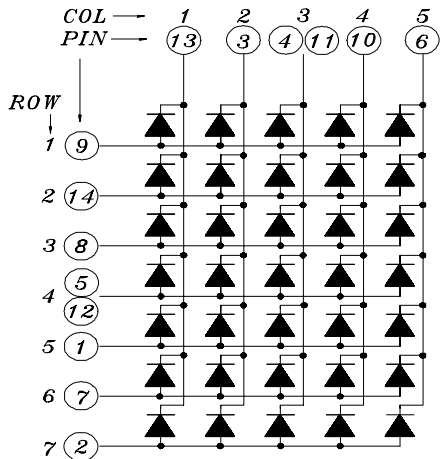
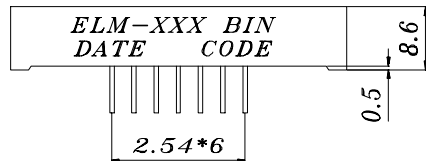


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■ Package Dimension:



- CATHODE COLUMN*  
*ANODE ROW*  
 1 *ANODE ROW 5*  
 2 *ANODE ROW 7*  
 3 *CATHODE COLUMN 2*  
 4 *CATHODE COLUMN 3*  
 5 *ANODE ROW 4*  
 6 *CATHODE COLUMN 5*  
 7 *ANODE ROW 6*  
 8 *ANODE ROW 3*  
 9 *ANODE ROW 1*  
 10 *CATHODE COLUMN 4*  
 11 *CATHODE COLUMN 3*  
 12 *ANODE ROW 4*  
 13 *CATHODE COLUMN 1*  
 14 *ANODE 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	-40 to +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	5.6	8.8	----	mcd	If=10mA
Peak Wavelength	λ p	----	660	----	nm	If=20mA
Dominant Wavelength	λ d	----	643	----	nm	If=20mA
Spectrum Radiation Bandwidth	Δ λ	----	20	----	nm	If=20mA
Forward Voltage	Vf	1.5	1.7	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	V	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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