



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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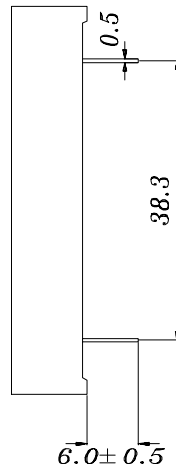
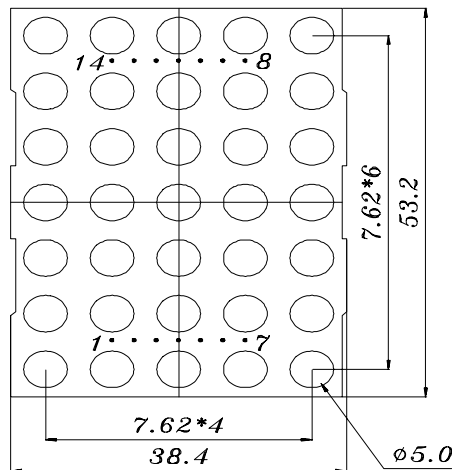
<http://www.everlight.com>



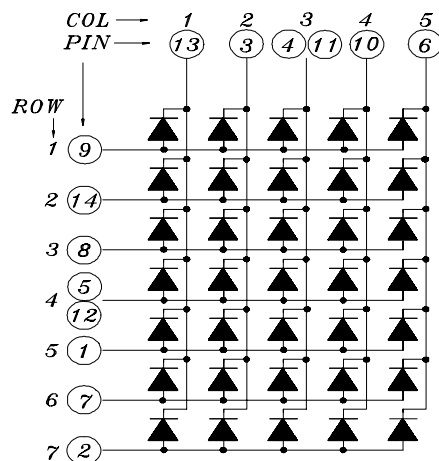
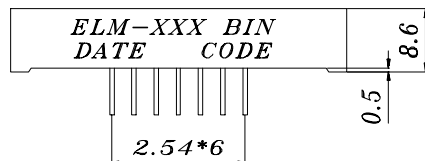
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■ Package Dimension:



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	$\Delta \lambda$	----	20	----	nm	If=20mA
Forward Voltage	Vf	1.5	1.7	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	V	Vr=5V



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDM-200-011 REV: 1.0

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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

[illegible]



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■ Typical Electro-Optical Characteristic Curves:

SR

