



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDM-282-002 REV: 1.0

## 2.3" 8\*8 Dot Matrix Displays

MODEL NO : ELM-2882EWB/T2 ECN :          Page: 1/5

### ■ Features :

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

### ■ Applications:

- Instrument panels
- Digital read out display

### ■ Descriptions :

- The ELM-2882 series is a large emitting area(5.0mm diameter)LED sources configured in a 64 dots 8\*8 matrix array.
- These devices are made with white dots and black surface.

PART NO	Chip	
	Material	Emitted Color
ELM-2882EWB/T2	GaAsP/GaP	Orange

OFFICE : NO. 25,Lane 76,Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2267-9936

FAX : 886-2-2267-6244,22676189,22676306

<http://www.everlight.com>

B89061620

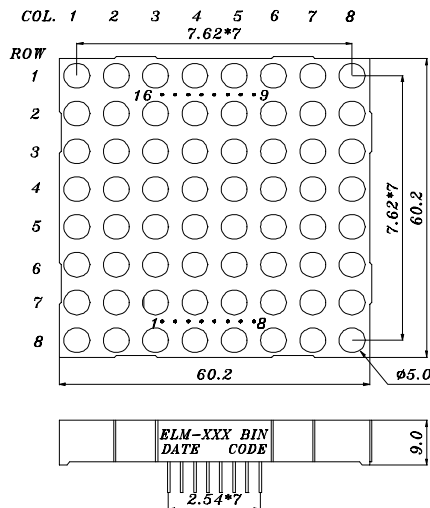
T00347



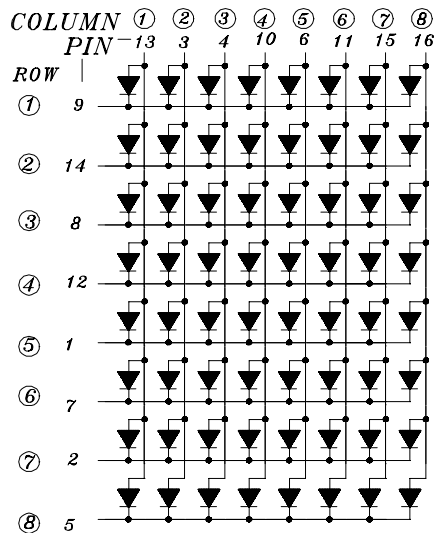
## 2.3" 8\*8 Dot Matrix Displays

MODEL NO : ELM-2882EWB/T2 ECN :                      Page: 2/5

### Package Dimensions:



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



### 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.



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDM-282-002 REV: 1.0

2.3" 8\*8 Dot Matrix Displays

MODEL NO : ELM-2882EWB/T2 ECN :                      Page: 3/5

■ 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 :

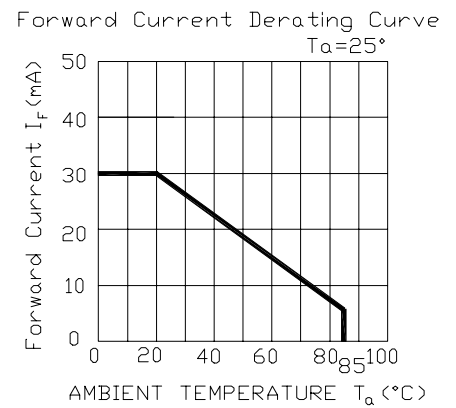
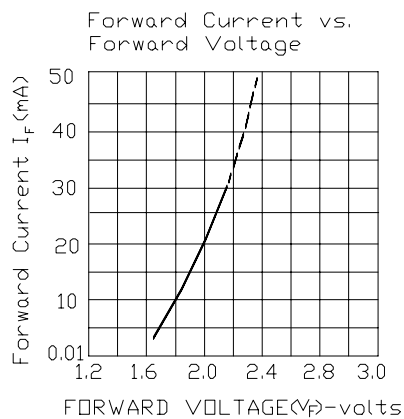
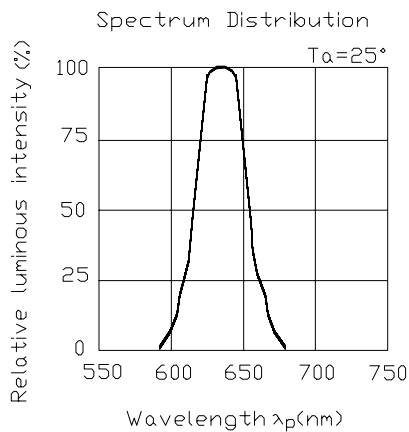
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	0.28	0.56	----	mcd	IF=2mA
Peak Wavelength	$\lambda_p$	----	635	----	nm	IF=20mA
Dominant Wavelength	$\lambda_d$	----	625	----	nm	IF=20mA
Spectrum Radiation Bandwidth	$\triangle \lambda$	----	45	----	nm	IF=20mA
Forward Voltage	VF	1.7	2.0	2.4	V	IF=20mA
Reverse Current	IR	----	----	10	$\mu A$	VR=5V



## 2.3" 8\*8 Dot Matrix Displays

MODEL NO: ELM-2882EWB/T2ECN :           Page: 4/5

### Typical Electro-Optical Characteristic Curves:





# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDM-282-002 REV: 1.0

2.3" 8\*8 Dot Matrix Displays

MODEL NO : ELM-2882EWB/T2 ECN :                      Page: 5/5

■ 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