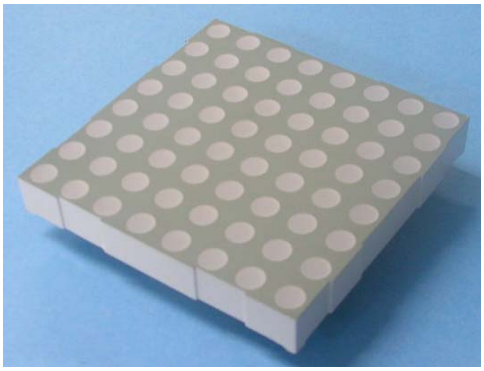
EVERLIGHT ELECTRONICS CO.,LTD.

Technical Data Sheet
2.3" 8*8 Dot Matrix Displays

ELM-2882SYGWA/S530-E2



Features :

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.
- Pb free
- The product itself will remain within RoHS compliant version

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 gray surface.

Applications :

- Audio equipment
- Instrument panels
- Digital read out display

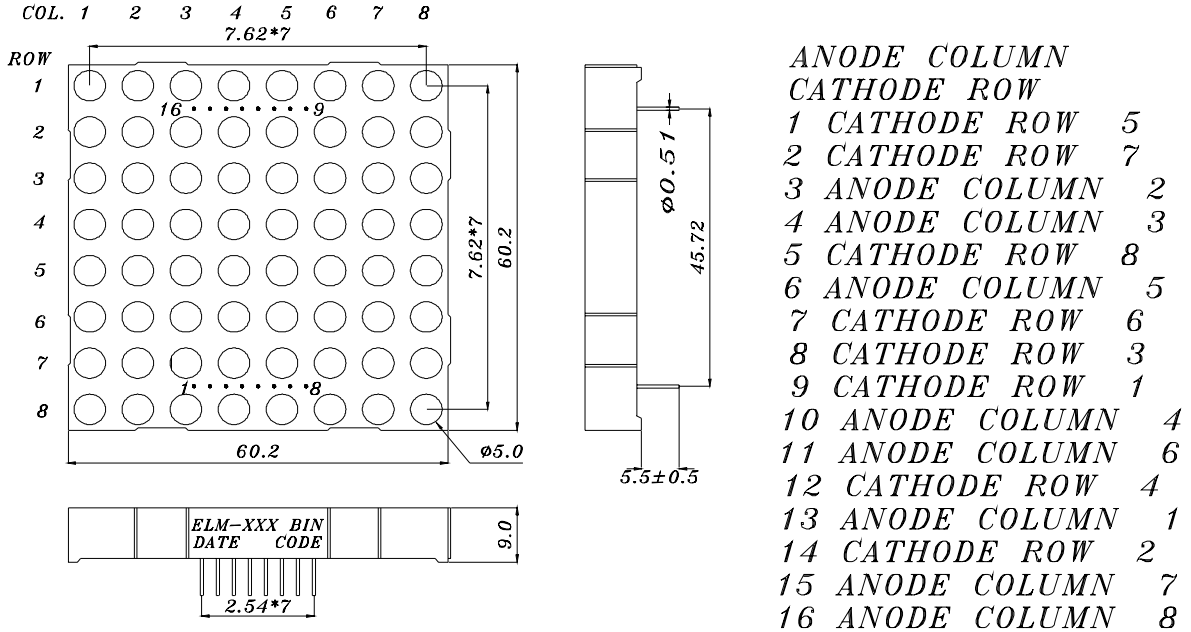
PART NO.	Chip	
	Material	Emitted Color
ELM-2882SYGWA/S530-E2	AlGaInP	Brilliant Yellow Green

BG0612084 50017426

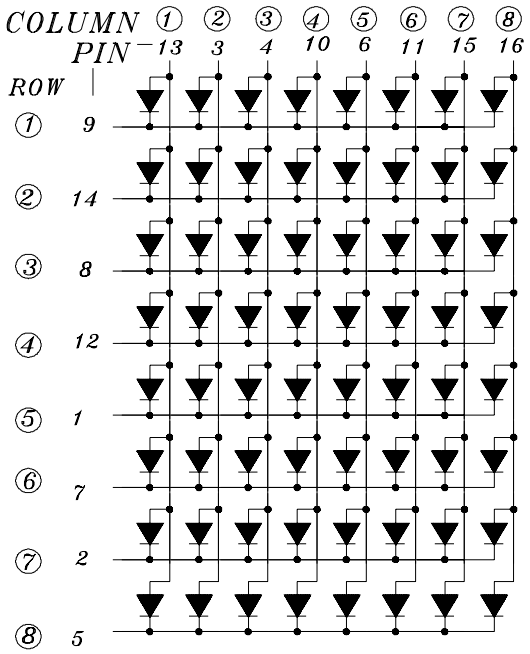
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2.3" 8*8 Dot Matrix Displays

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Package Dimensions



ANODE COLUMN
CATHODE ROW
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 6
12 CATHODE ROW 4
13 ANODE COLUMN 1
14 CATHODE ROW 2
15 ANODE COLUMN 7
16 ANODE COLUMN 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.

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■ Absolute maximum ratings at Ta = 25℃ :

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	25	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Soldering Temperature *	Tsol	260 ± 5	℃
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW

Note: *Soldering time ≦ 5 seconds.

■ Electronic optical characteristics :

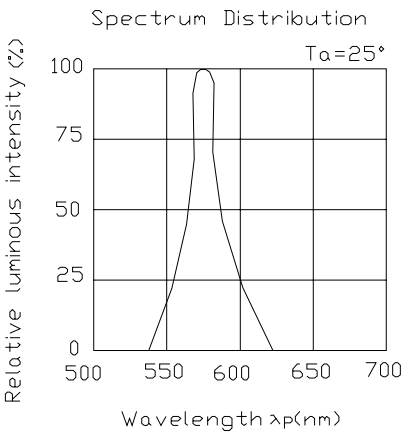
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	----	3.2	----	mcd	I_F=2mA
		7.8	17.6	----	mcd	I_F=10mA
Peak Wavelength	λ p	----	575	----	nm	I_F=20mA
Dominant Wavelength	λ d	----	573	----	nm	I_F=20mA
Spectrum Radiation Bandwidth	△ λ	----	20	----	nm	I_F=20mA
Forward Voltage	V_F	-----	2.0	2.4	V	I_F=20mA
Reverse Current	I_R	----	----	100	μA	V_R=5V

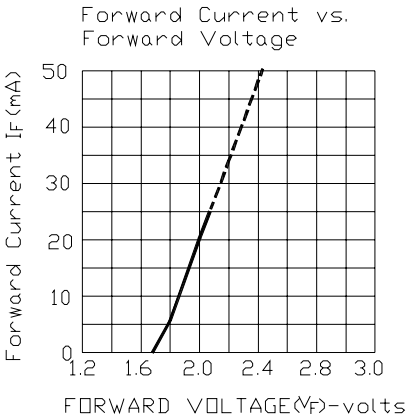
Technical Data Sheet
2.3" 8*8 Dot Matrix Displays

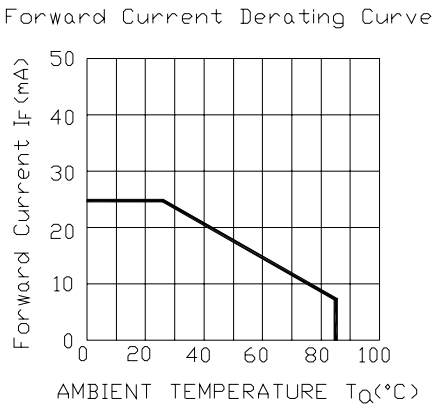
ELM-2882SYGWA/S530-E2

■ Typical Electro-Optical Characteristic Curves:

CHIP Material:AlGaInP
Emitted Color:Brilliant Yellow Green







Technical Data Sheet
2.3" 8*8 Dot Matrix Displays

ELM-2882SYGWA/S530-E2

Reliability test items and conditions:

The reliability of products shall be satisfied with items listed below.

Confidence level：97%

LTPD：3%

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Failure Judgment Criteria	Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	5 SEC	76 PCS	Iv≦Ivt*0.5 or Vf≧U or Vf≦L	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 = 10 mA	1000 HRS	76 PCS		0/1
7	High Temperature / High Humidity	85℃/85% RH	1000 HRS	76 PCS		0/1

Note： Ivt：The test Iv value of the chip before the reliablility test

Iv：The test value of the chip that has completed the reliablility test

U：Upper Specification Limit

L： Lower Specification Limit

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2.3" 8*8 Dot Matrix Displays

ELM-2882SYGWA/S530-E2

■ Packing Quantity Specification

1. 8PCS/tube, 14 tubes/box
2. 4Boxes/Carton

Label Form Specification

EVERLIGHT

CPN:
P/N:
M2882SYGWA/S530-E2
QTY:
CAT:
HUE:
LOT NO:
REF:
MADE IN CHINA

CPN: Customer's Production Number
P/N : Production Number
QTY: Packing Quantity
CAT: Ranks
HUE: Dominant Wavelength
REF: Reference
LOT No: Lot Number
MADE IN CHINA: Production Place

Notes :

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT' sconsent.

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