

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Technical Data Sheet 2.3" 8*8 Dot Matrix Displays

ELM-2881SYGWA/S530-E2

Features:

- Large emitting dot 0.2" diameter.
- Low power/high brightness.
- Pb free
- The product itself will remain within RoHS compliant version

Descriptions:

- The ELM-2881 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

DA DT NO	Chip		
PART NO.	Material	Emitted Color	
ELM-2881SYGWA/S530-E2	AlGaInP	Super Yellow Green	

BG0507180 50010283

EVERLIGHT ELECTRONICS CO.,LTD. Device Number: CDDM-288-034

http://www.everlight.com Prepared date:2005/8/10 Rev.: 1 Page: 1 of 6 Prepared by: YanLi Zhong



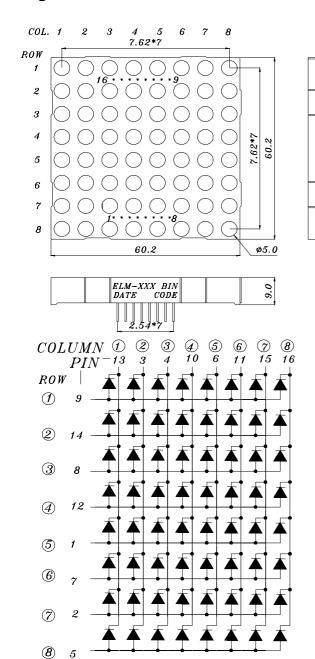
51

 5.5 ± 0.5

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Package Dimensions



CATHODECOLUMNANODE2 3 ATHODECOLUMNCOLUMN5 COLUMN6 3 9 COLUMN4 COLUMN6 COLUMN3 THODE1 ROWVODE15 CATHODECOLUMNCATHODECOLUMN8

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 $Ta = 25^{\circ}C$:

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 to +85	$^{\circ}\!\mathbb{C}$
Storage Temperature	Tstg	-40 to +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature *	Tsol	260 ± 5	$^{\circ}\!\mathbb{C}$
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW

Note: *Soldering time \leq 5 seconds.

Electronic optical characteristics:

Parameter		Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv		3.2		mcd	IF=2mA
			7.8	17.6		mcd	IF=10mA
Peak Wavelength		λρ		575		nm	IF=20mA
Dominant Wavelength		λd		573		nm	IF=20mA
Spectrum Radiation Bandwidth		Δλ		20		nm	IF=20mA
Forward Voltage		Forward Voltage VF 2.0 2.4		2.4	V	IF=20mA	
Reverse Current		IR			100	μΑ	VR=5V

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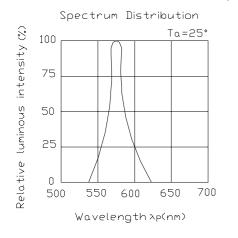


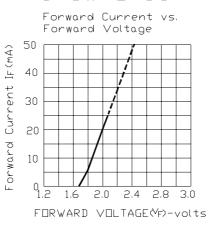
Technical Data Sheet 2.3" 8*8 Dot Matrix Displays

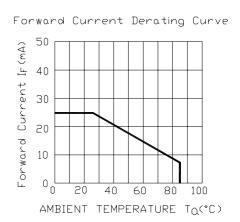
ELM-2881SYGWA/S530-E2

Typical Electro-Optical Characteristic Curves:

CHIP Material: AlGaInP Emitted Colon: Super Yellow Green







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Technical Data Sheet 2.3" 8*8 Dot Matrix Displays

ELM-2881SYGWA/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°C ± 5 °C	5 SEC	76 PCS		0/1
2	Temperature Cycle	$H: +85^{\circ}\mathbb{C}$ 30min $\int 5 \text{ min}$ $L: -55^{\circ}\mathbb{C}$ 30min	50 CYCLE	76 PCS		0/1
3	Thermal Shock	$H: +100^{\circ}\mathbb{C}$ 5min $\int 10 \sec \mathbb{L}: -10^{\circ}\mathbb{C}$ 5min	50 CYCLE	76 PCS	Iv≦Ivt*0.5	0/1
4	High Temperature Storage	TEMP: 100°C	1000 HRS	76 PCS	or Vf≧U or	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 PCS	Vf≦L	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

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 LimitL: Lower Specification Limit

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Technical Data Sheet 2.3" 8*8 Dot Matrix Displays

ELM-2881SYGWA/S530-E2

Packing Quantity Specification

1.8PCS/tube, 14 tubes/box

2.4Boxes/Carton

Label Form Specification

EVERLIGHT

CPN: P/N:

M2881SYGWA/S530-E2

QTY:

LOT NO:

HUE: REF:

CAT:

_

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.
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