



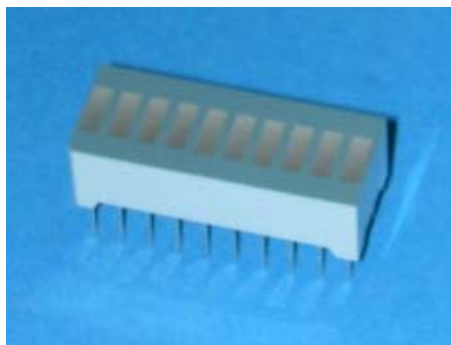
Technical Data Sheet

10 Bar Graph Displays

ELB-1001SYGWA/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 ELB-1001 series are ten-element bar graph displays. designed for viewing distances up to 7 meters.
There are separate anodes and
- cathodes for each light segment and choice of five colors is offered.
- These devices are made with white segments and gray surface.

■ Applications :

- Audio equipment
- Instrument panels
- Digital read out display

PART NO.	Chip	
	Material	Emitted Color
ELB-1001SYGWA/S530-E2	AlGaInP	Super Yellow Green

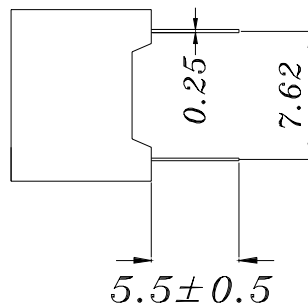
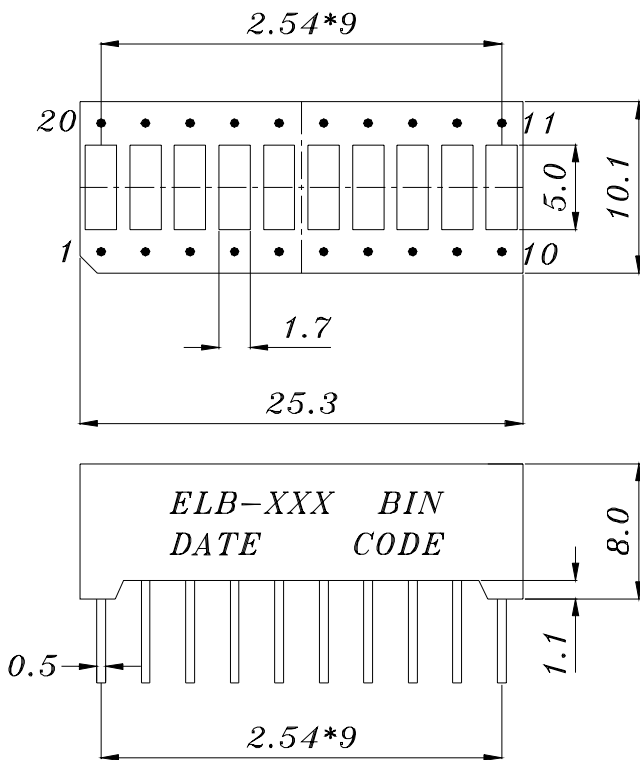
A0211074 50001469



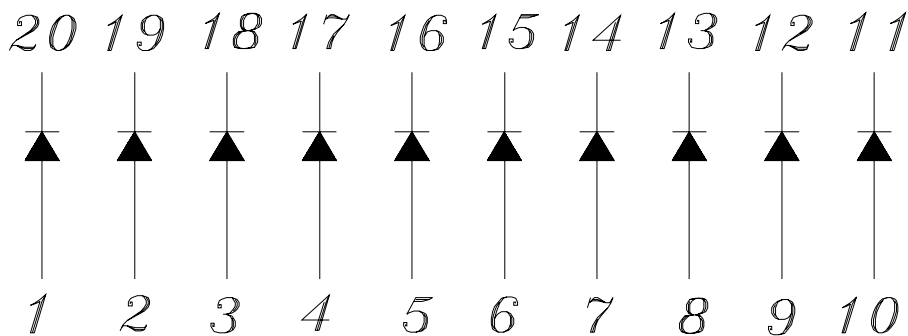
Technical Data Sheet
10 Bar Graph Displays

ELB-1001SYGWA/S530-E2

Package Dimensions



1	ANODE	BAR	1
2	ANODE	BAR	2
3	ANODE	BAR	3
4	ANODE	BAR	4
5	ANODE	BAR	5
6	ANODE	BAR	6
7	ANODE	BAR	7
8	ANODE	BAR	8
9	ANODE	BAR	9
10	ANODE	BAR	10
11	CATHODE	BAR	10
12	CATHODE	BAR	9
13	CATHODE	BAR	8
14	CATHODE	BAR	7
15	CATHODE	BAR	6
16	CATHODE	BAR	5
17	CATHODE	BAR	4
18	CATHODE	BAR	3
19	CATHODE	BAR	2
20	CATHODE	BAR	1



- 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.



Technical Data Sheet

10 Bar Graph Displays

ELB-1001SYGWA/S530-E2

■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature *	Tsol	260 ± 5	°C
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	Per segment	Iv	----	2.0	----	mcd	IF=2mA
			2.8	4.5	----	mcd	IF=10mA
Peak Wavelength		λ p	----	575	----	nm	IF=20mA
Dominant Wavelength		λ d	----	573	----	nm	IF=20mA
Spectrum Radiation Bandwidth		△ λ	----	20	----	nm	IF=20mA
Forward Voltage		VF	-----	2.0	2.4	V	IF=20mA
Reverse Current		IR	----	----	100	μ A	VR=5V

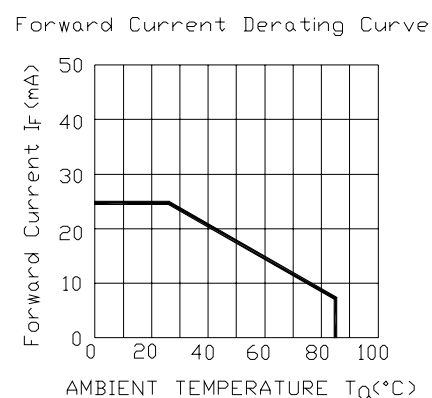
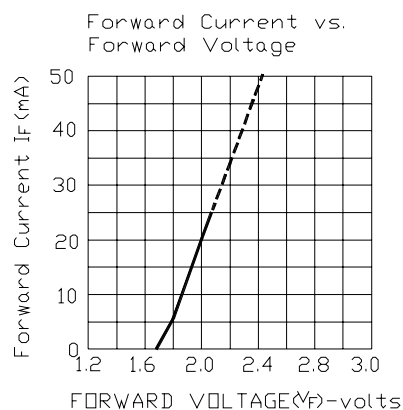
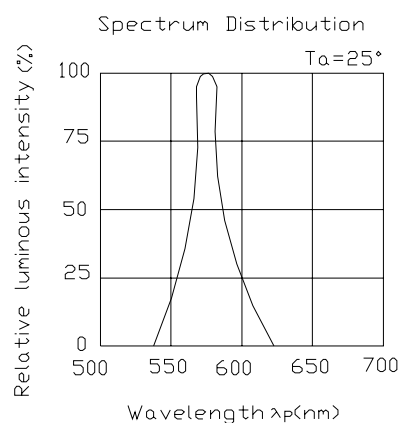


Technical Data Sheet
10 Bar Graph Displays

ELB-1001SYGWA/S530-E2

■ Typical Electro-Optical Characteristic Curves:

CHIP Material:AlGaInP
Emitted Color:Super Yellow Green





Technical Data Sheet

10 Bar Graph Displays

ELB-1001SYGWA/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	$I_v \leq I_{vt} * 0.5$ or $V_f \geq U$ or $V_f \leq L$	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

Note : I_{vt} : The test I_v value of the chip before the reliability test

I_v : The test value of the chip that has completed the reliability test

U : Upper Specification Limit

L : Lower Specification Limit



Technical Data Sheet

10 Bar Graph Displays

ELB-1001SYGWA/S530-E2

■ Packing Quantity Specification

1. 19PCS/tube, 72 tubes/box
2. 4Boxes/Carton

Label Form Specification



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's consent.

EVERLIGHT ELECTRONICS CO., LTD.

Office: 7c Building ,Lian Hua Port Industrial District, Lian Hua Shan
Bonded Processing, Zone Pan Yu, Guang Zhou, China

Tel: (020) 84860913 , 84860914

Fax: (020) 84860600

http://www.everlight.com

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9