



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





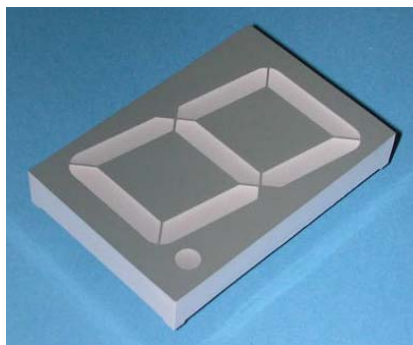
## Technical Data Sheet

### 2.3" Single Digit Displays

#### ELS-2325SYGWA/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 ELS-2325 series is a large 57.0 mm (2.3") high seven segment display designed for viewing distances up to 7 meters.
- These displays provide excellent reliability in bright ambient light.
- 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
ELS-2325SYGWA/S530-E2	AlGaInP	Super Yellow Green

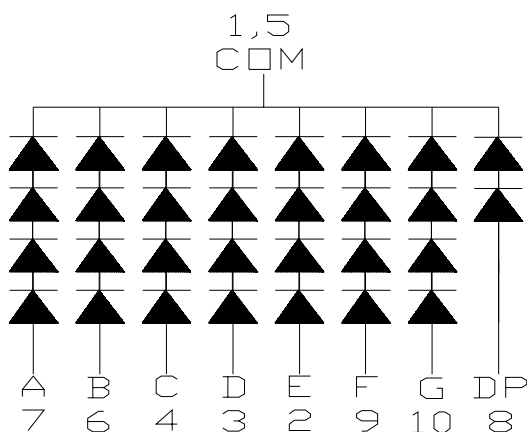
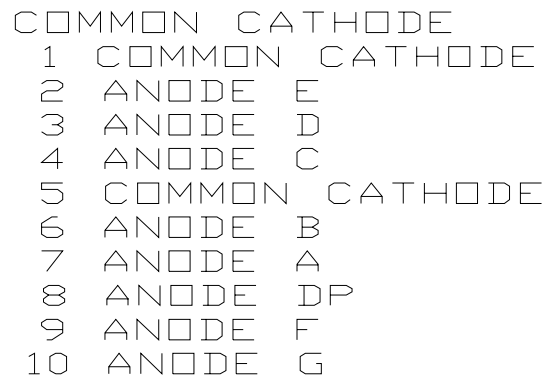
BG0606034

50014451



## 2.3" Single Digit Displays

## Package Dimensions



Supplier will reserve authority on material change for above specification.



# Technical Data Sheet

## 2.3" Single Digit Displays

ELS-2325SYGWA/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	I <sub>v</sub>	----	2.5	----	mcd	I <sub>F</sub> =2mA
			5.6	12.5	----	mcd	I <sub>F</sub> =10mA
	Per decimal point		----	0.7	----	mcd	I <sub>F</sub> =2mA
			1.4	3.0	----	mcd	I <sub>F</sub> =10mA
Peak Wavelength		λ <sub>p</sub>	----	575	----	nm	I <sub>F</sub> =20mA
Dominant Wavelength		λ <sub>d</sub>	----	573	----	nm	I <sub>F</sub> =20mA
Spectrum Radiation Bandwidth		△λ	----	20	----	nm	I <sub>F</sub> =20mA
Forward Voltage	Per segment	V <sub>F</sub>	----	8.0	9.6	V	I <sub>F</sub> =20mA
	Per decimal point	V <sub>F</sub>	-----	4.0	4.8	V	I <sub>F</sub> =20mA
Reverse Current		I <sub>R</sub>	----	---	100	μA	V <sub>R</sub> =5V



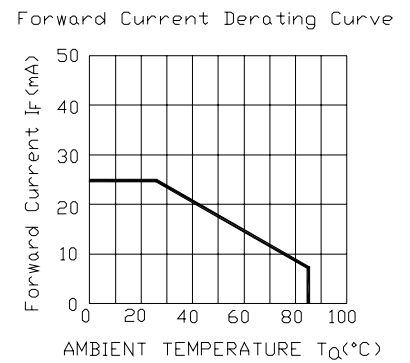
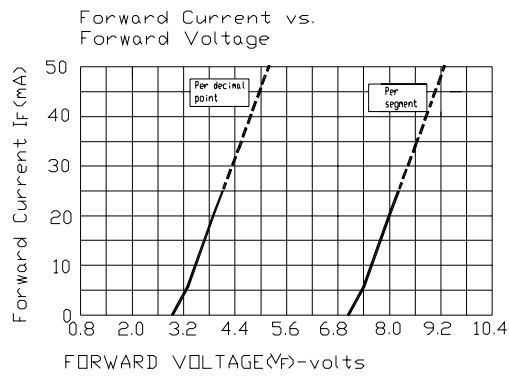
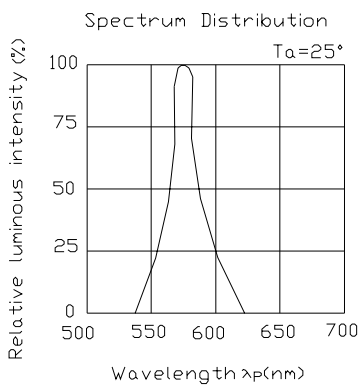


Technical Data Sheet  
2.3" Single Digit Displays

ELS-2325SYGWA/S530-E2

■ Typical Electro-Optical Characteristic Curves:

CHIP Material:AlGaInP  
Emitted Color:Super Yellow Green





## Technical Data Sheet

### 2.3" Single Digit Displays

ELS-2325SYGWA/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<sub>vt</sub> : The test I<sub>v</sub> value of the chip before the reliability test

I<sub>v</sub> : The test value of the chip that has completed the reliability test

U : Upper Specification Limit

L : Lower Specification Limit



## Technical Data Sheet

### 2.3" Single Digit Displays

ELS-2325SYGWA/S530-E2

#### ■ Packing Quantity Specification

1. 10PCS/tube, 10 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.
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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>