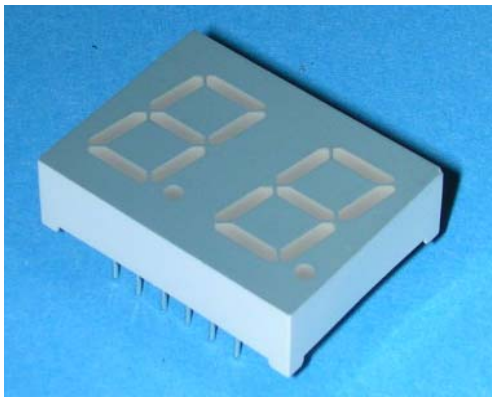
EVERLIGHT ELECTRONICS CO.,LTD.

Technical Data Sheet
0.5" Dual Digit Displays

ELD-515SYGWA/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 ELD-515 series is a large 12.7 mm (0.5")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

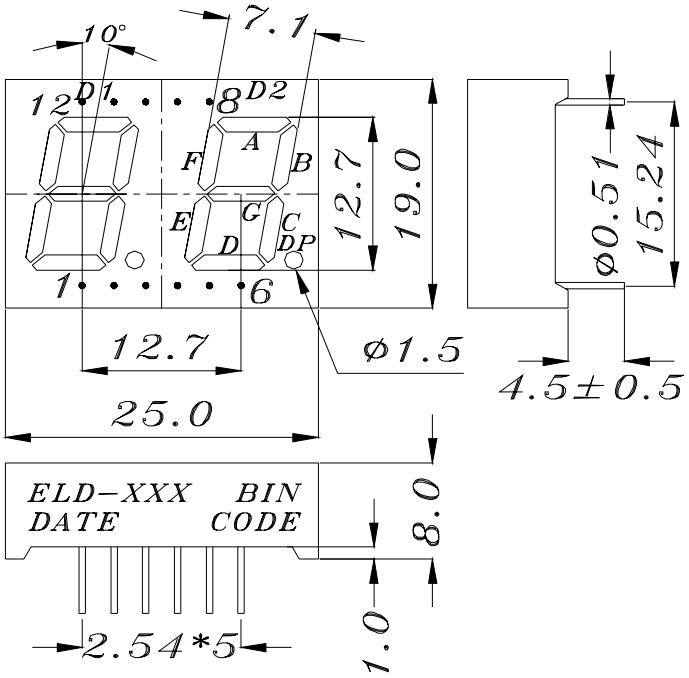
PART NO.	Chip	
	Material	Emitted Color
ELD-515SYGWA/S530-E2	AlGaInP	Brilliant Yellow Green

BG0608005 50015255

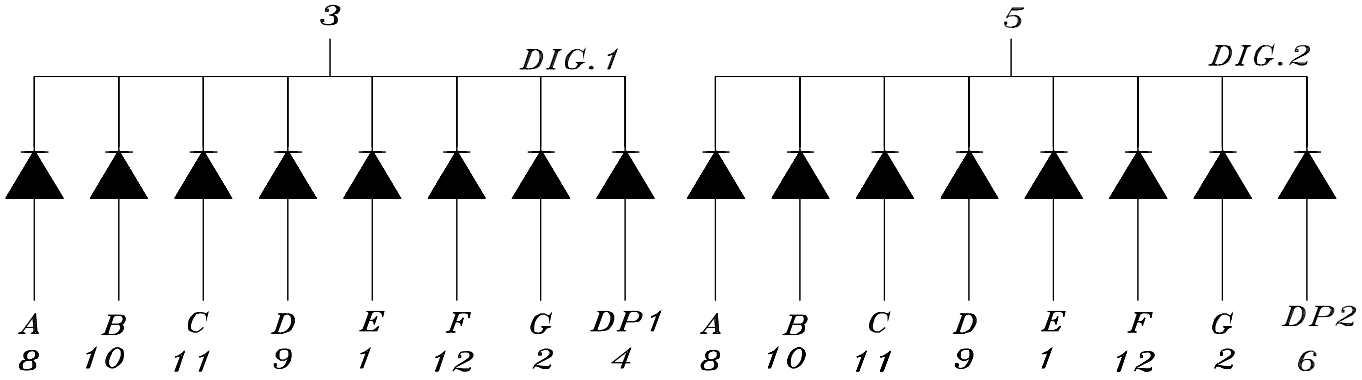
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Package Dimensions



COMMON CATHODE
1 ANODE E
2 ANODE G
3 COMMON CATHODE DIG.1
4 ANODE DP1
5 COMMON CATHODE DIG.2
6 ANODE DP2
7 NO PIN
8 ANODE A
9 ANODE D
10 ANODE B
11 ANODE C
12 ANODE F



NO PIN: 7

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 :

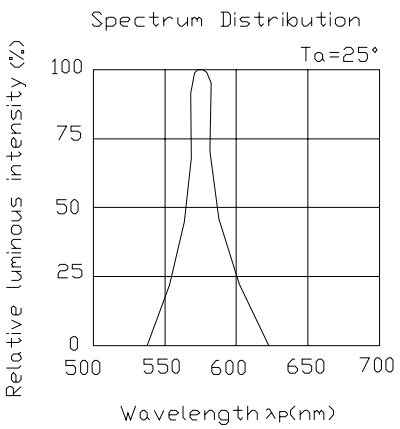
Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	----	1.2	----	mcd	I_F=2mA
			2.8	6.4	----	mcd	I_F=10mA
	Per decimal point		----	0.4	----	mcd	I_F=2mA
			0.6	1.5	----	mcd	I_F=10mA
Peak Wavelength		λ p	----	575	----	nm	I_F=20mA
Dominant Wavelength		λ d	----	573	----	nm	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

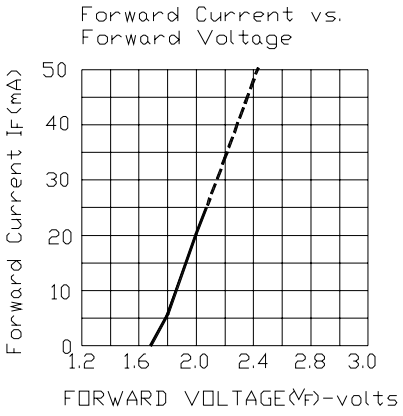
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0.5" Dual Digit Displays

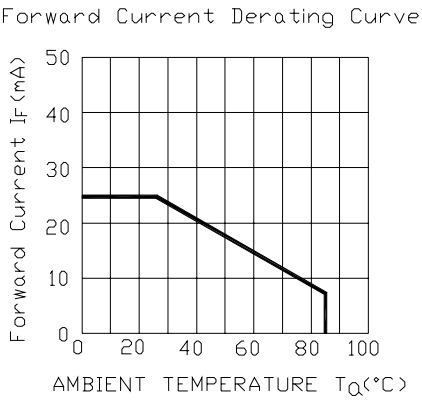
ELD-515SYGWA/S530-E2

■ Typical Electro-Optical Characteristic Curves:

CHIP Material:AlGaInP
Emitted Color:Brilliant Yellow Green







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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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■ Packing Quantity Specification

1. 20PCS/tube, 54 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' sconsent.

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