



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDD-306-034 REV: 1

0.3" Dual Digit Displays

PART NO. : ELD-306SYGWA/S530-E2/P11 ECN : Page: 1/5

■ Features :

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELD-306 series is a large 7.62 mm (0.3")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.

PART NO.	Chip	
	Material	Emitted Color
ELD-306SYGWA/SS530-E2/P11	AlGaInP	Super Yellow Green

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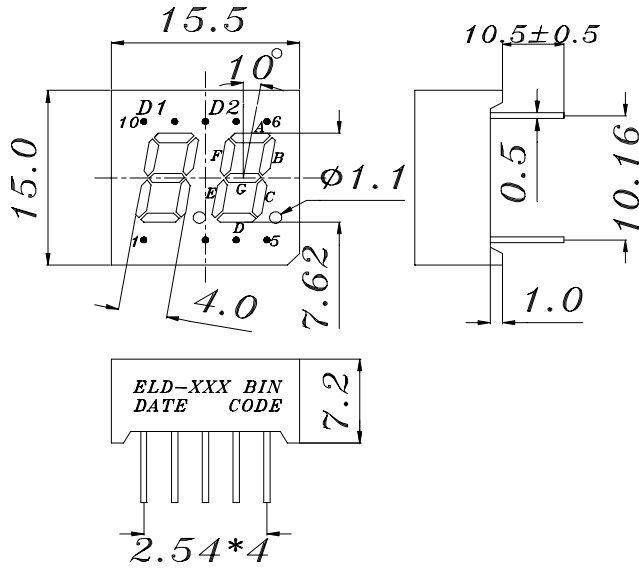
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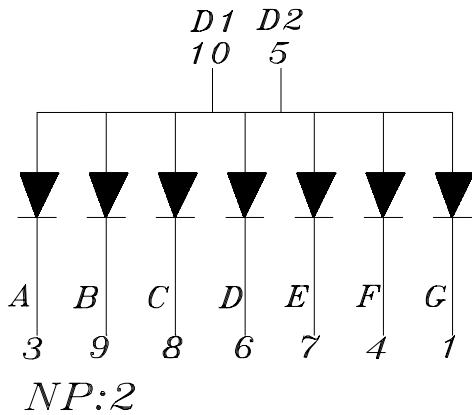
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0.3" Dual Digit Displays

■ Package Dimensions:



- COMMON ANODE*
- 1 CATHODE G
 - 2 NO PIN
 - 3 CATHODE A
 - 4 CATHODE F
 - 5 COMMON ANODE D2
 - 6 CATHODE D
 - 7 CATHODE E
 - 8 CATHODE C
 - 9 CATHODE B
 - 10 COMMON ANODE D1



■ 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.



0.3" Dual Digit Displays

■ 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
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	160	mA

■ Electronic optical characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	0.4	0.6	----	mcd	IF=2mA
			2.0	3.2	----		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	----	----	10	μ A	VR=5V



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ECN : _____

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■ Typical Electro-Optical Characteristic Curves:

CHIP Material: AlGaInP
Emitted Color: Super Yellow Green

Spectrum Distribution
Ta=25°

Wavelength λp (nm)	Relative luminous intensity (%)
550	0
560	20
570	70
580	100
590	70
600	20
610	0

Forward Current vs. Forward Voltage

FORWARD VOLTAGE (VF)-volts	Forward Current If (mA)
1.6	0
1.8	5
2.0	15
2.2	30
2.4	50

Forward Current Derating Curve

AMBIENT TEMPERATURE TQ (°C)	Forward Current If (mA)
0	25
25	25
50	15
75	5
85	0



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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	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