



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDD-306-036 REV: 1

0.3" Dual Digit Displays

PART NO. : ELD-306SYGWA/S530-E2/P5 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/P5 | AlGaInP | Super Yellow Green |

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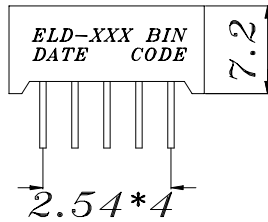
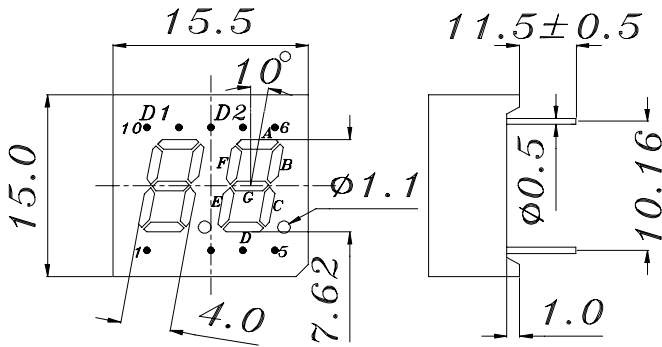
<http://www.everlight.com>

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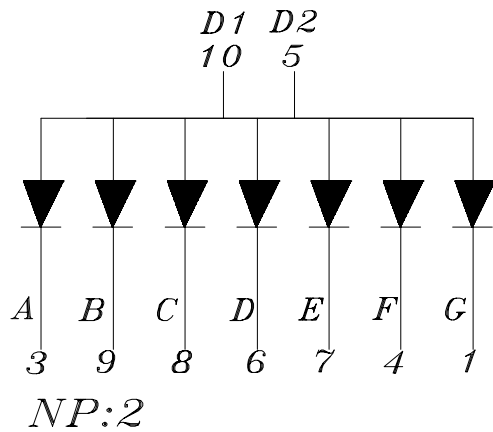


0.3" Dual Digit Displays

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.



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■ 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 | ---- | 0.6 | ---- | mcd | IF=2mA |
| | | | 2.0 | 3.2 | ---- | | IF=10mA |
| Peak Wavelength | | λp | ---- | 575 | ---- | nm | IF=20mA |
| Dominant Wavelength | | λd | ---- | 573 | ---- | nm | IF=20mA |
| Spectrum Radiation | Bandwidth | $\Delta \lambda$ | ---- | 20 | ---- | nm | IF=20mA |
| Forward Voltage | | VF | ---- | 2.0 | 2.4 | V | IF=20mA |
| Reverse Current | | IR | ---- | ---- | 100 | μA | VR=5V |



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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 |

