



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDD-426-023 REV: 1.0

0.4" Dual Digit Display

MODEL NO : ELD-426GWB ECN : Page: 1/5

■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital readout display

■ Description :

- The ELD-426 series is a large 10.16mm (0.4")high seven segment display design for viewing distances up to 7 meters.
- These displays provide excellent reliability in bright ambient light .
- These device is made with white segments and black surface.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELD-426GWB	GaP	Green	C.A.

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<http://www.everlight.com>

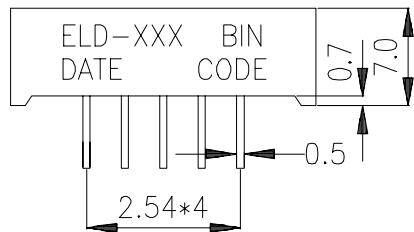
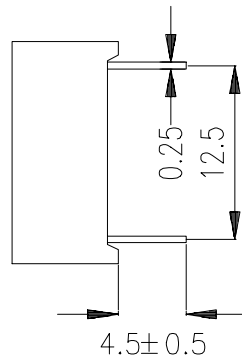
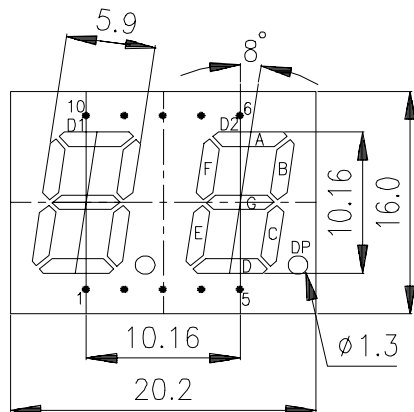


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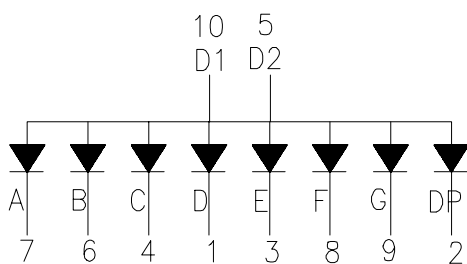
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■ Package Dimension:



- ```
COMMON ANODE
1 CATHODE D
2 CATHODE DP
3 CATHODE E
4 CATHODE C
5 COMMON ANODE D2
6 CATHODE B
7 CATHODE A
8 CATHODE F
9 CATHODE G
10 COMMON ANODE D1
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■ NOTES:

- 1.All dimensions are 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                           | V <sub>r</sub>        | 5           | V    |
| Forward Current                           | I <sub>f</sub>        | 30          | mA   |
| Operating Temperature                     | T <sub>opr</sub>      | -40 to +85  | °C   |
| Storage Temperature                       | T <sub>stg</sub>      | -40 to +100 | °C   |
| Soldering Temperature                     | T <sub>sol</sub>      | 260 ± 5     | °C   |
| Power Dissipation                         | P <sub>d</sub>        | 100         | mW   |
| Peak Forward Current(Duty<br>1/10 @ 1KHZ) | I <sub>f</sub> (Peak) | 160         | mA   |

## ■ Electronic optical characteristics :

| Parameter                       |                         | Symbol         | MIN. | TYP. | MAX. | Unit | Condition            |
|---------------------------------|-------------------------|----------------|------|------|------|------|----------------------|
| Luminous<br>Intensity           | Per<br>segment          | I <sub>v</sub> | 1.4  | 2.3  | ---- | mcd  | I <sub>f</sub> =10mA |
|                                 | Per<br>decimal<br>point |                | 1.0  | 1.5  | ---- |      |                      |
| Peak Wavelength                 |                         | λ <sub>p</sub> | ---- | 565  | ---- | nm   | I <sub>f</sub> =20mA |
| Dominant Wavelength             |                         | λ <sub>d</sub> | ---- | 570  | ---- | nm   | I <sub>f</sub> =20mA |
| Spectrum Radiation<br>Bandwidth |                         | △λ             | ---- | 30   | ---- | nm   | I <sub>f</sub> =20mA |
| Forward Voltage                 |                         | V <sub>f</sub> | 1.7  | 2.1  | 2.4  | V    | I <sub>f</sub> =20mA |
| Reverse Current                 |                         | I <sub>r</sub> | ---- | ---- | 10   | μA   | V <sub>r</sub> =5V   |



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## ■ Reliability test item and condition:

| NO | Item                             | Test Conditions                             | Test Hours/Cycle | Sample Size | Ac/Re |
|----|----------------------------------|---------------------------------------------|------------------|-------------|-------|
| 1  | Solder Heat                      | TEMP : 260℃ ± 5 ℃                           | 5 SEC            | 76 PCS      | 0/1   |
| 2  | Temperature Cycle                | H : +85℃ 30min<br>└ 5 min<br>L : -55℃ 30min | 50 CYCLE         | 76 PCS      | 0/1   |
| 3  | Thermal Shock                    | H : +100℃ 5min<br>└ 10 sec<br>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 = 20 mA                                  | 1000 HRS         | 76 PCS      | 0/1   |
| 7  | High Temperature / High Humidity | 85℃/85% RH                                  | 1000 HRS         | 76 PCS      | 0/1   |



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## ■ Typical Electro-Optical Characteristic Curves:

