



0.4"Dual Digit Displays

■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELD-426 series is a large 10.16mm (0.4")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 green segments and black surface.

| PART NO         | Chip     |               | C.C. or C.A. |
|-----------------|----------|---------------|--------------|
|                 | Material | Emitted Color |              |
| ELD-426GDB/S143 | GaP      | Green         | C.A.         |

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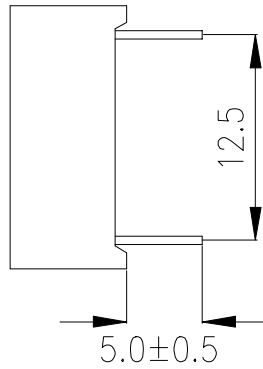
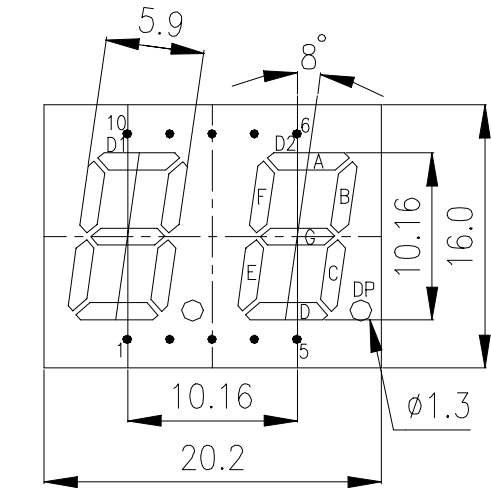
## 0.4"Dual Digit Displays

MODEL NO : ELD-426GDB/S143

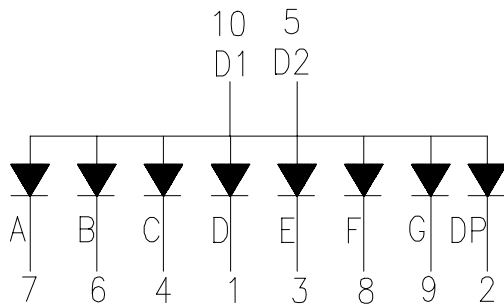
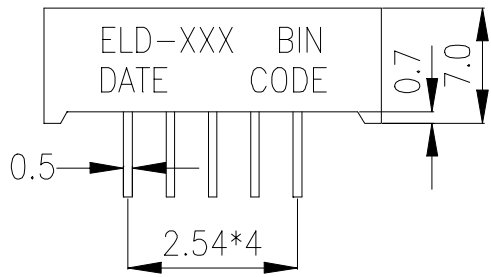
ECN : \_\_\_\_\_

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### ■ Package Dimensions:



- 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



### ■ 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       | 30          | mA   |
| Operating Temperature                  | Topr     | -40 to +85  | °C   |
| Storage Temperature                    | Tstg     | -40 to +100 | °C   |
| Soldering Temperature                  | Tsol     | 260 ± 5     | °C   |
| Power Dissipation                      | Pd       | 100         | 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               | 2.00 | 3.2  | ---- | mcd     | If=10mA   |
|                              | Per decimal point |                  | 0.50 | 1.00 | ---- |         |           |
| Peak Wavelength              |                   | $\lambda p$      | ---- | 565  | ---- | nm      | If=20mA   |
| Dominant Wavelength          |                   | $\lambda d$      | ---- | 570  | ---- | nm      | If=20mA   |
| Spectrum Radiation Bandwidth |                   | $\Delta \lambda$ | ---- | 30   | ---- | nm      | If=20mA   |
| Forward Voltage              |                   | Vf               | 1.7  | 2.1  | 2.4  | V       | If=20mA   |
| Reverse Current              |                   | Ir               | ---- | ---- | 10   | $\mu A$ | Vr=5V     |



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDD-426-049 REV: 1.0

0.4"Dual Digit Displays

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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<br>∫ 5 min<br>L : -55°C 30min | 50 CYCLE         | 76 PCS      | 0/1   |
| 3  | Thermal Shock                    | H : +100°C 5min<br>∫ 10 sec<br>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   |



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## Typical Electro-Optical Characteristic Curves:

