



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDD-512-005 REV: 1.1

0.56" Dual Digit Displays

MODEL NO : ELD-512SRWA

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-512 series is a large 14.22mm  
(0.56")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-512SRWA | GaAlAs   | Super Red     |

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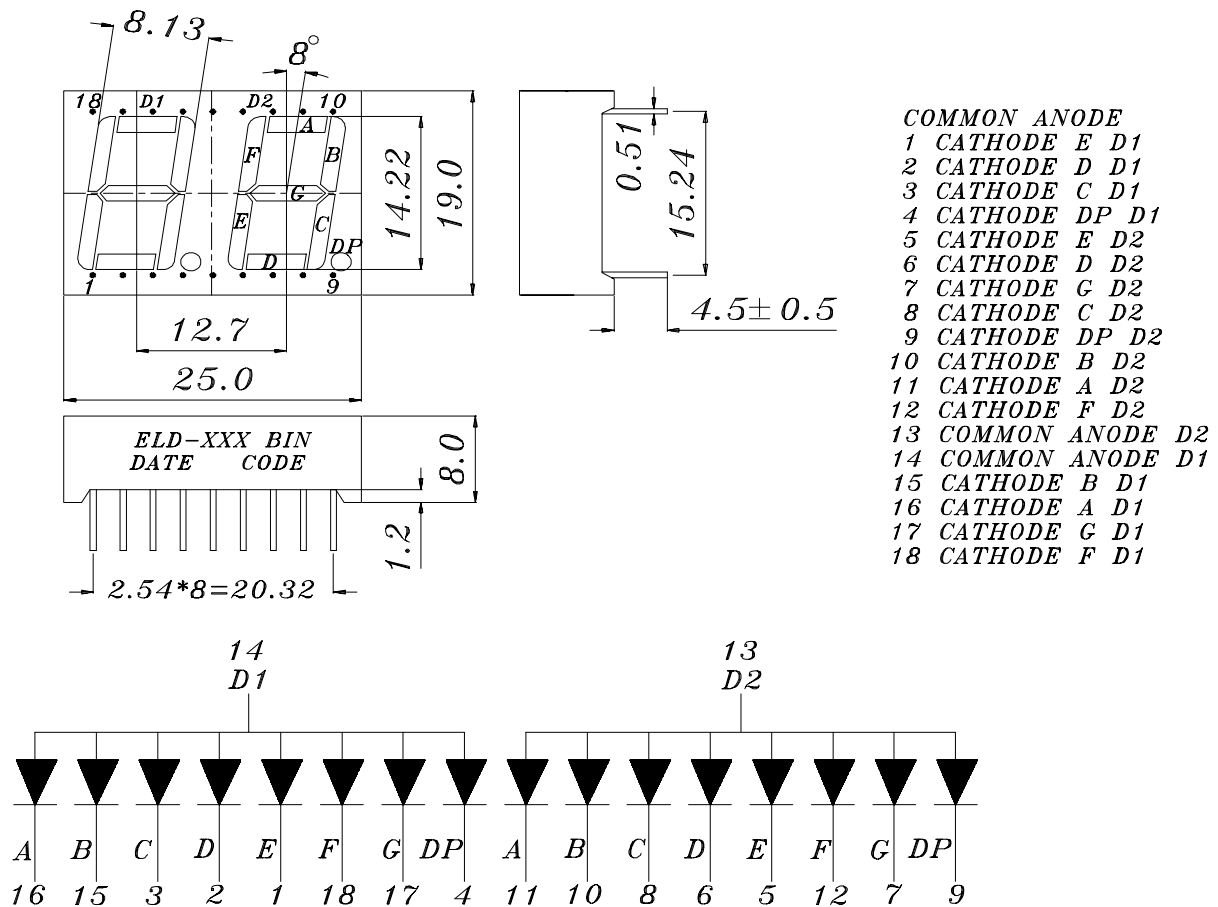
<http://www.everlight.com>



## 0.56" Dual Digit Displays

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### ■ Package Dimensions:



### ■ 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       | 40          | mA   |
| Operating Temperature                     | Topr     | -40 to +85  | °C   |
| Storage Temperature                       | Tstg     | -40 to +100 | °C   |
| Soldering Temperature                     | Tsol     | 260 ± 5     | °C   |
| Power Dissipation                         | Pd       | 110         | mW   |
| Peak Forward Current(Duty<br>1/10 @ 1KHZ) | If(Peak) | 180         | mA   |

■ Electronic optical characteristics :

| Parameter                       |                         | Symbol           | MIN. | TYP. | MAX. | Unit    | Condition |
|---------------------------------|-------------------------|------------------|------|------|------|---------|-----------|
| Luminous<br>Intensity           | Per<br>segment          |                  | 5.6  | 11.5 | ---- | mcd     | If=10mA   |
|                                 | Per<br>decimal<br>point |                  | 2.80 | 5.60 | ---- | mcd     | If=10mA   |
| Peak Wavelength                 |                         | $\lambda_p$      | ---- | 660  | ---- | nm      | If=20mA   |
| Dominant Wavelength             |                         | $\lambda_d$      | ---- | 643  | ---- | nm      | If=20mA   |
| Spectrum Radiation<br>Bandwidth |                         | $\Delta \lambda$ | ---- | 20   | ---- | nm      | If=20mA   |
| Forward Voltage                 |                         | Vf               | 1.5  | 1.7  | 2.4  | V       | If=20mA   |
| Reverse Current                 |                         | Ir               | ---- | ---- | 10   | $\mu A$ | Vr=5V     |



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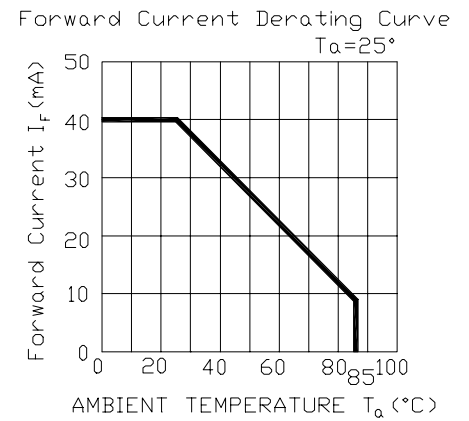
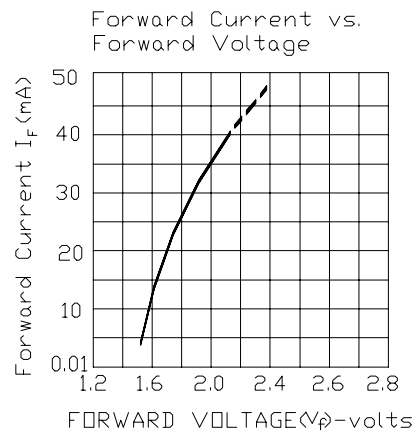
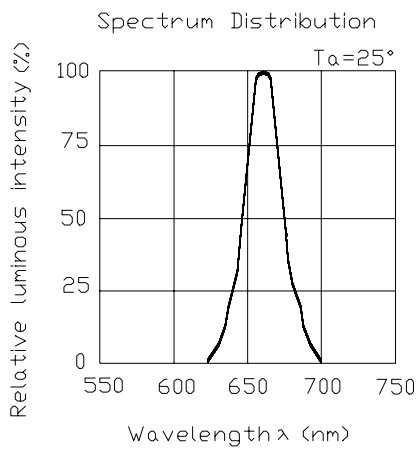
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## Typical Electro-Optical Characteristic Curves:





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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   |