



Device Number : DDS-122-006 REV: 1.0

## 1.2" Single Digit Display

MODEL NO : ELS-1225GWB 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 ELS-1225series is a large 30.4mm (1.2")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 |              |
| ELS-1225GWB | GaP      | Green         | C.C.         |

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<http://www.everlight.com>

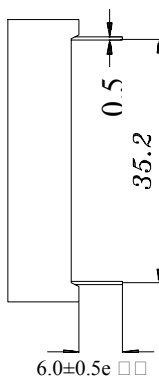


REV: 1.0

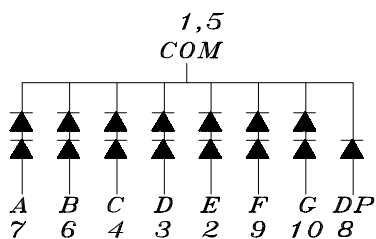
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■ Package Dimension:



*COMMON CATHODE*  
*1 COMMON CATHODE*  
*2 ANODE E*  
*3 ANODE D*  
*4 ANODE C*  
*5 COMMON CATHODE*  
*6 ANODE B*  
*7 ANODE A*  
*8 ANODE DP*  
*9 ANODE F*  
*10 ANODE G*



■ 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.

TS99021 B991515



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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       | 200         | mW   |
| Peak Forward Current(Duty<br>1/10 @ 1KHZ) | If(Peak) | 160         | mA   |

■ Electronic optical characteristics :

| Parameter                       |                         | Symbol | MIN. | TYP. | MAX. | Unit | Condition |
|---------------------------------|-------------------------|--------|------|------|------|------|-----------|
| Luminous<br>Intensity           | Per<br>segment          | Iv     | 7.8  | 11.0 | ---- | mcd  | If=10mA   |
|                                 | Per<br>decimal<br>point |        | 2.0  | 2.8  | ---- |      |           |
| Peak Wavelength                 |                         | λ p    | ---- | 565  | ---- | nm   | If=20mA   |
| Dominant Wavelength             |                         | λ d    | ---- | 570  | ---- | nm   | If=20mA   |
| Spectrum Radiation<br>Bandwidth |                         | △ λ    | ---- | 30   | ---- | nm   | If=20mA   |
| Forward<br>Voltage              | Per<br>segment          | Vf     | 3.4  | 4.2  | 4.8  | V    | If=20mA   |
|                                 | Per<br>decimal<br>point |        | 1.7  | 2.1  | 2.4  |      |           |
| Reverse Current                 |                         | Ir     | ---- | ---- | 10   | μ A  | Vr=5V     |



# EVERLIGHT ELECTRONICS CO.,LTD.

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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°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 = 20 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:

