



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDC-346-006 REV: 1.0

## 0.34" Clock Displays

MODEL NO : ELC-346GWB/S201 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 ELC-346 series is a large 8.5mm (0.34")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 |              |
| ELC-346GWB/S201 | GaP      | Green         | C.A.         |

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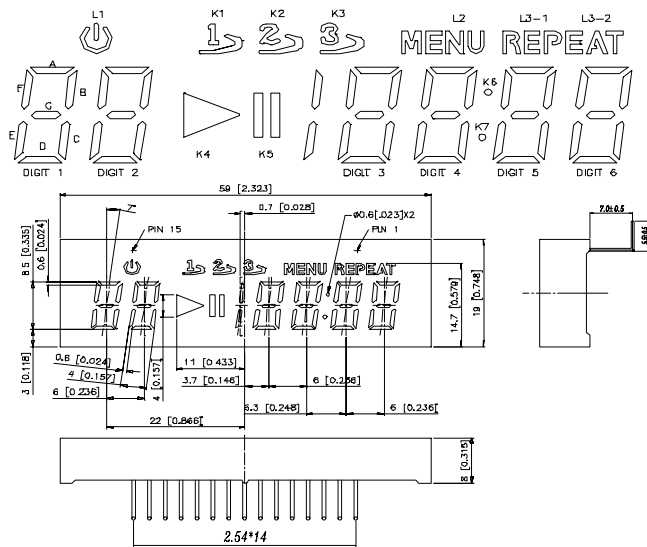
FAX : 886-2-2267-6244,22676189,22676306

<http://www.everlight.com>

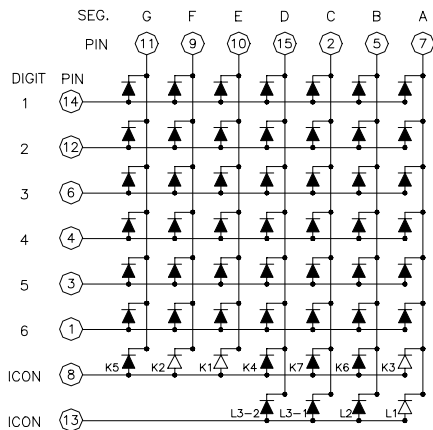


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Package Dimensions:



- COMMON ANODE
- 1 COMMON ANODE (DIGIT 6)
  - 2 CATHODE SEG.C, K7, L3-1
  - 3 COMMON ANODE (DIGIT 5)
  - 4 COMMON ANODE (DIGIT 4)
  - 5 CATHODE SEG.B, K6, L2
  - 6 COMMON ANODE (DIGIT 3)
  - 7 CATHODE SEG.A, K3, L1
  - 8 COMMON ANODE ICON K1~K7
  - 9 CATHODE SEG.F, K2
  - 10 CATHODE SEG.E, K1
  - 11 CATHODE SEG.G, K5
  - 12 COMMON ANODE (DIGIT 2)
  - 13 COMMON ANODE ICON L1~L3
  - 14 COMMON ANODE (DIGIT 1)
  - 15 CATHODE SEG.D, K4, L3-2



→▶ : STANDS FOR GREEN CHIPS.  
 →◁ : STANDS FOR RED CHIPS.

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                        | 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 1/10 @ 1KHZ) | I <sub>f(Peak)</sub> | 160         | mA   |

### ■ Electronic optical characteristics :

| Parameter                    | Symbol            | MIN. | TYP. | MAX. | Unit | Condition            |
|------------------------------|-------------------|------|------|------|------|----------------------|
| Luminous Intensity           | Per segment       | 1.4  | 2.8  | ---- | mcd  | I <sub>f</sub> =10mA |
|                              | Per decimal point | 0.50 | 1.00 | ---- |      |                      |
| 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 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°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:

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