



Device Number : DDS-232-025 REV: 1.0

## 2.24" Single Digit Displays

MODEL NO: ELS-2326SRDR/P2 ECN : \_\_\_\_\_ Page: 1/5

### ■ Features :

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

### ■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

### ■ Descriptios :

- The ELS-2326series is a large 57.0mm (2.24")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 red segments and red surface.

| PART NO         | CHIP     |               | C.C. or C.A. |
|-----------------|----------|---------------|--------------|
|                 | Material | Emitted Color |              |
| ELS-2326SRDR/P2 | GaAlAs   | Super Red     | C.A.         |

OFFICE : NO. 25,Lane 76,Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2267-9936

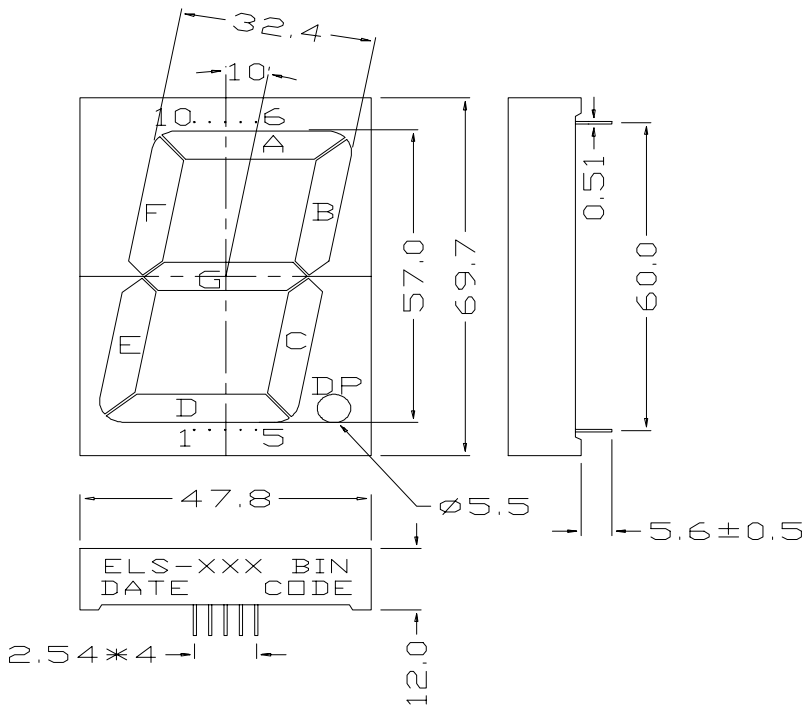
FAX : 886-2-2267-6244,22676189,22676306

<http://www.everlight.com>

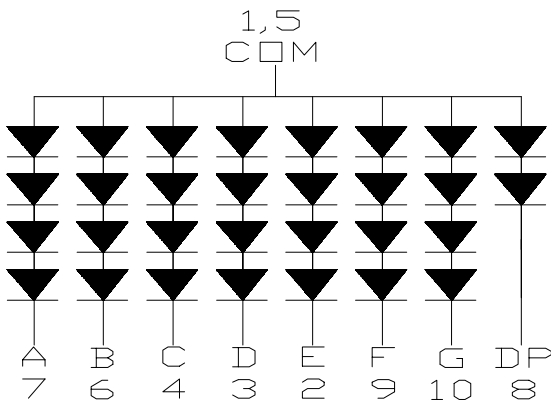


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■ Package Dimensions:



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



■ 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       | 440         | mW   |
| Peak Forward Current(Duty 1/10 @ 1KHZ) | If(Peak) | 180         | mA   |

■ Electronic optical characteristics :

| Parameter                    |                   | Symbol           | MIN. | TYP. | MAX. | Unit    | Condition |
|------------------------------|-------------------|------------------|------|------|------|---------|-----------|
| Luminous Intensity           | Per segment       | Iv               | 7.80 | 11.7 | ---- | mcd     | If=10mA   |
|                              | Per decimal point |                  | 4.00 | 5.60 | ---- |         |           |
| Peak Wavelength              |                   | $\lambda p$      | ---- | 660  | ---- | nm      | If=20mA   |
| Dominant Wavelength          |                   | $\lambda d$      | ---- | 643  | ---- | nm      | If=20mA   |
| Spectrum Radiation Bandwidth |                   | $\Delta \lambda$ | ---- | 20   | ---- | nm      | If=20mA   |
| Forward Voltage              | Per segment       | Vf               | 6.0  | 6.8  | 9.6  | V       | If=20mA   |
|                              | Per decimal point |                  | 3.0  | 3.4  | 4.8  |         |           |
| Reverse Current              |                   | Ir               | ---- | ---- | 10   | $\mu A$ | 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 = 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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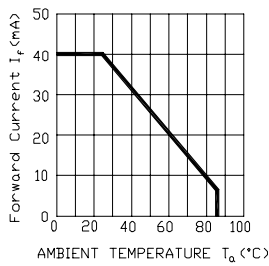
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### Typical Electro-Optical Characteristic Curves:

Forward Current Derating Curve



Spectrum Distribution

