



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDT-541-040 REV: 1.0

0.56" Triple Digit Displays with Right Pin

MODEL NO : ELT-541GWA/R ECN : _____ Page: 1/5

■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Description :

- The ELT-541 series is a large 14.22mm (0.56")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 gray surface.

| PART NO | CHIP | | C.C. or C.A. |
|--------------|----------|---------------|--------------|
| | Material | Emitted Color | |
| ELT-541GWA/R | GaP | Green | C.C. |

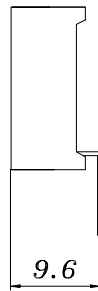
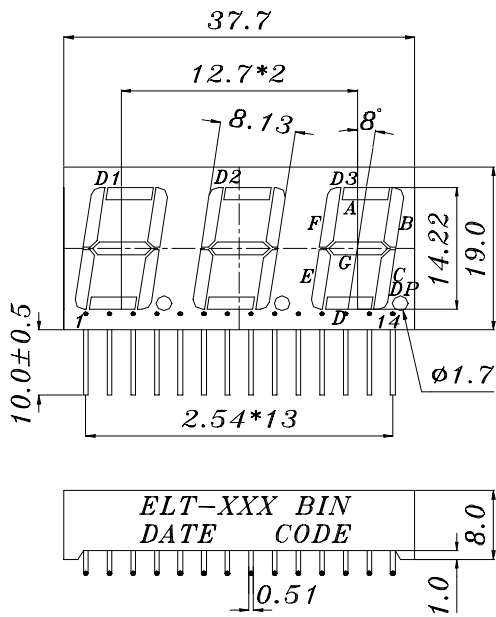
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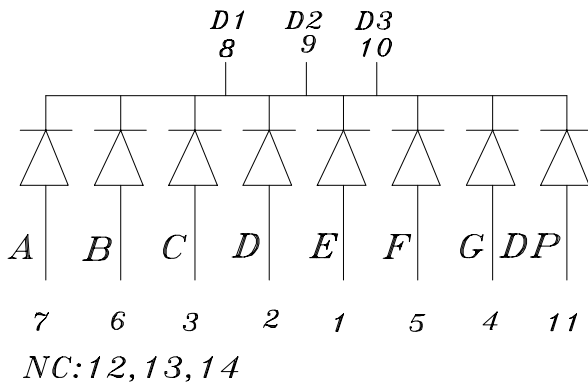
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■ Package Dimension:



COMMON CATHODE

- 1 ANODE E
- 2 ANODE D
- 3 ANODE C
- 4 ANODE G
- 5 ANODE F
- 6 ANODE B
- 7 ANODE A
- 8 COMMON CATHODE D1
- 9 COMMON CATHODE D2
- 10 COMMON CATHODE D3
- 11 ANODE DP
- 12 NO CONNECTION
- 13 NO CONNECTION
- 14 NO CONNECTION



■ 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.



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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 | 1.4 | 3.0 | ---- | mcd | If=10mA |
| | Per decimal point | | 0.28 | 1.05 | ---- | mcd | If=10mA |
| Peak Wavelength | | λ p | ---- | 565 | ---- | nm | If=20mA |
| Dominant Wavelength | | λ d | ---- | 570 | ---- | nm | If=20mA |
| Spectrum Radiation Bandwidth | | △ λ | ---- | 30 | ---- | nm | If=20mA |
| Forward Voltage | | Vf | 1.7 | 2.1 | 2.4 | V | If=20mA |
| Reverse Current | | Ir | ---- | ---- | 10 | μ A | Vr=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 ∫ 5 min L : -55°C 30min | 50 CYCLE | 76 PCS | 0/1 |
| 3 | Thermal Shock | H : +100°C 5min ∫ 10 sec 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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