

**ATTENTION**

OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

**Part No.: NES-5612AT-11**

## **Features:**

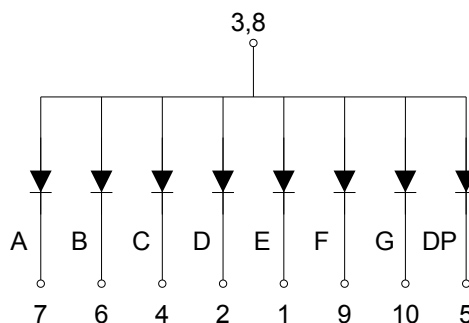
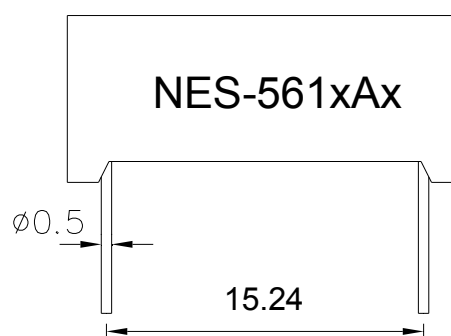
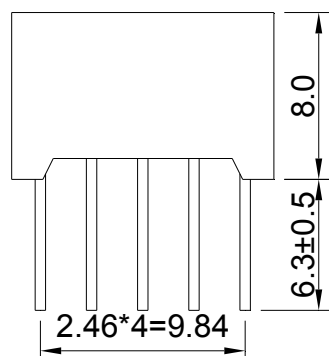
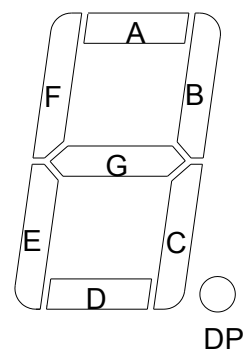
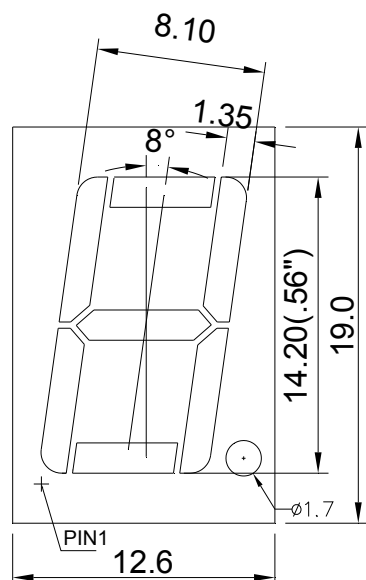
- Industrial standard size.
- Low current operation.
- Easy mounting on P.C. boards or sockets.
- I.C. compatible.
- Mechanically rugged.
- Pb free.
- RoHS compliant.

## **Descriptions:**

- The NES-561xAx series is a large 14.2mm  
(0.56") high seven segment display.
- These displays provide excellent  
reliability in bright ambient light.
- These devices are made with black  
surface and white segments.
- The Pure Green source color devices  
are made with InGaN Green  
Light Emitting Diode.

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## Package Dimensions & Internal Circuit Diagram



### Notes:

1. All dimensions are in millimeters(inches),Tolerance is  $\pm 0.25$  (0.01") unless otherwise noted.
2. Specifications are subject to change without notice.

**Absolute maximum ratings (Ta = 25℃)**

| Parameter             | Symbol |                                 | Value |      | Unit |
|-----------------------|--------|---------------------------------|-------|------|------|
|                       |        |                                 | Min.  | Max. |      |
| Reverse Voltage       | VR     | ----                            | ----  | 5    | V    |
| Forward Current       | IF     | ----                            | ----  | 25   | mA   |
| Power Dissipation     | Pd     | ----                            | ----  | 75   | mW   |
| Pulse Current         | Ipeak  | Duty=0.1mS,<br>1kHz             | ----  | 80   | mA   |
| Operating Temperature | Topr   | ----                            | -25   | +85  | ℃    |
| Storage Temperature   | Tstr   | ----                            | -30   | +85  | ℃    |
| Solder Temperature    | Tsol   | 1/16inch below<br>Seating plane | 260/3 |      | ℃/s  |

**Electrical and optical characteristics (Ta = 25℃)**

| Parameter                | Symbol | Test Condition | Values |      |      | Unit |
|--------------------------|--------|----------------|--------|------|------|------|
|                          |        |                | Min.   | Typ. | Max. |      |
| Forward Voltage          | VF     | IF=20mA        | ----   | 3.0  | 3.6  | V    |
| Reverse Current          | IR     | VR=5V          | ----   | ---- | 30   | μ A  |
| Dominate Wavelength      | λ d    | IF=20mA        | ----   | 520  | ---- | nm   |
| Peak Wavelength          | λ p    | IF=20mA        | ----   | 522  | ---- | nm   |
| Spectral Line half-width | Δ λ    | IF=20mA        | ----   | 30   | ---- | nm   |
| Luminous Intensity       | Iv     | IF=10mA        | ----   | 15   | ---- | mcd  |

Typical electrical/optical characteristic curves:

