

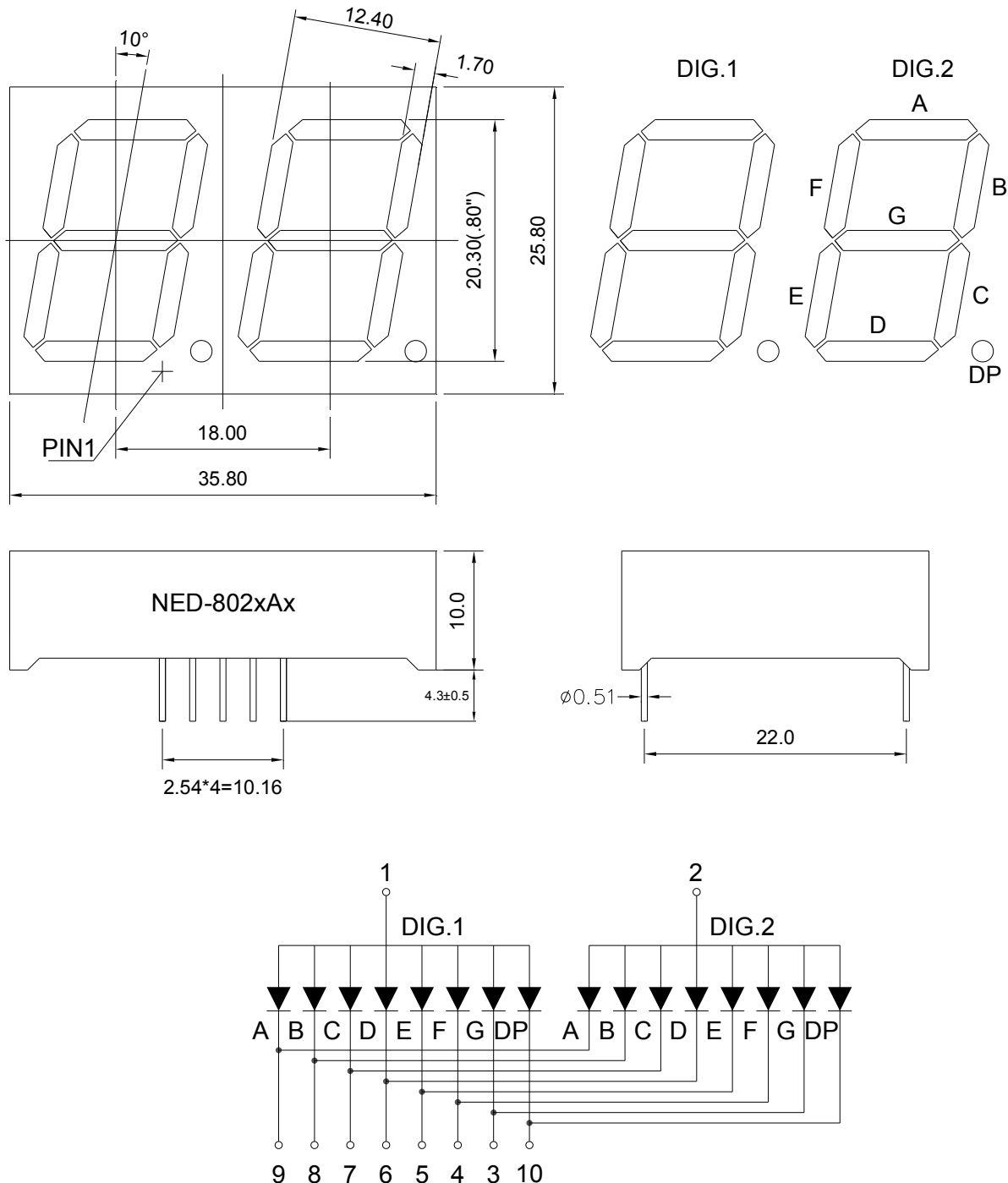
**Features:**

- 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 NED-802xAx series is a large 20.3mm (0.8") high seven segment display.
- These displays provide excellent reliability in bright ambient light.
- These devices are made with black surface and white segments.
- The Super Orange Red source color  
Devices are made with AlGaInP  
Orange Red Light Emitting Diode

## 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     | ----                            | ----  | 60   | 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        | ----   | 1.9  | 2.3  | V    |
| Reverse Current          | IR     | VR=5V          | ----   | ---- | 30   | μ A  |
| Dominate Wavelength      | λ d    | IF=20mA        | ----   | 625  | ---- | nm   |
| Peak Wavelength          | λ p    | IF=20mA        | ----   | 635  | ---- | nm   |
| Spectral Line half-width | Δ λ    | IF=20mA        | ----   | 20   | ---- | nm   |
| Luminous Intensity       | Iv     | IF=10mA        | ----   | 5000 | ---- | ucd  |

## Typical electrical/optical characteristic curves:

