

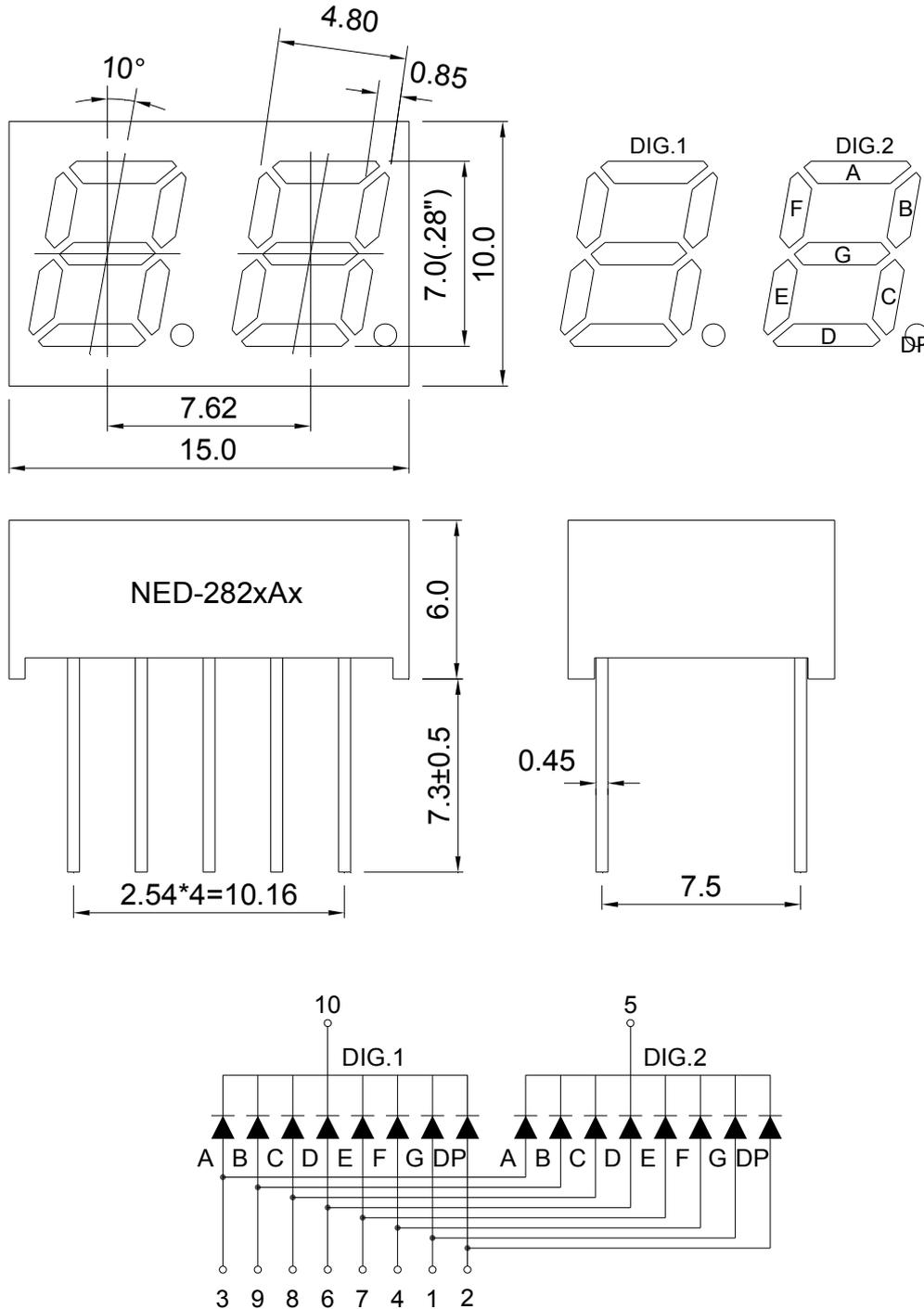
## Features:

- 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-282xAx series is a large 7.0mm (0.28") 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 Bright Red source color devices are made with AlGaInP 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°C)**

| 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  | °C   |
| Storage Temperature   | Tstr   | ----                            | -30   | +85  | °C   |
| Solder Temperature    | Tsol   | 1/16inch below<br>Seating plane | 260/3 |      | °C/s |

**Electrical and optical characteristics (Ta = 25°C)**

| 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   | μA   |
| Dominant Wavelength      | $\lambda_d$      | IF=20mA        | ----   | 640  | ---- | nm   |
| Peak Wavelength          | $\lambda_p$      | IF=20mA        | ----   | 660  | ---- | nm   |
| Spectral Line half-width | $\Delta \lambda$ | IF=20mA        | ----   | 20   | ---- | nm   |
| Luminous Intensity       | Iv               | IF=10mA        | ----   | 6000 | ---- | ucd  |

Typical electrical/optical characteristic curves:

