



**Features:**

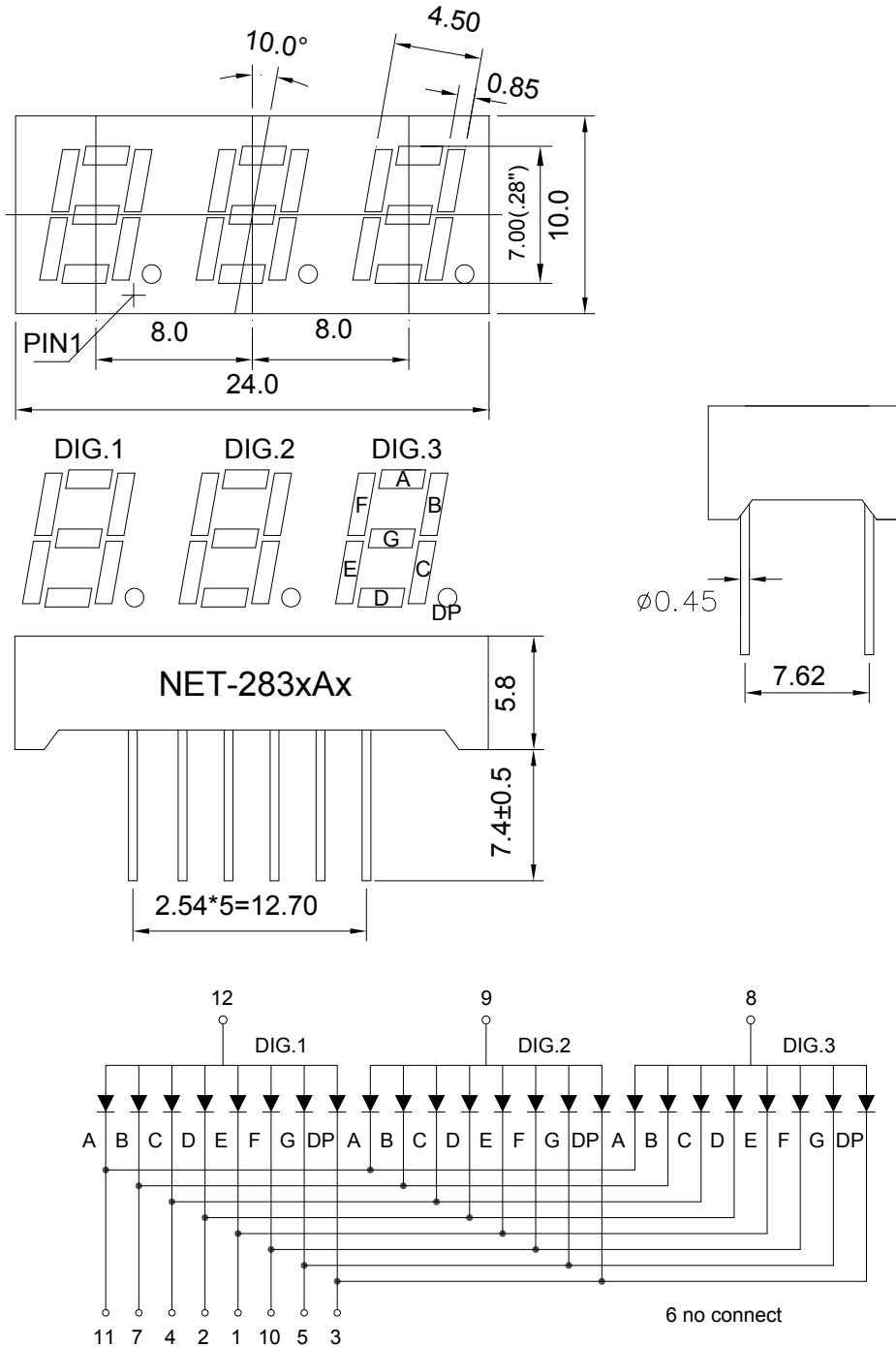
- Industrial standard size.
- Low current operation.
- Easy mounting on P.C. boards or sockets.
- I.C. compatible.
- Mechanically rugged.
- Pb free.
- RoHS compliant.

**Descriptions:**

- The NET-283xAx 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 Diod



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       | V <sub>R</sub>    | ----                            | ----  | 5    | V    |
| Forward Current       | I <sub>F</sub>    | ----                            | ----  | 25   | mA   |
| Power Dissipation     | P <sub>d</sub>    | ----                            | ----  | 60   | mW   |
| Pulse Current         | I <sub>peak</sub> | Duty=0.1mS,<br>1kHz             | ----  | 80   | mA   |
| Operating Temperature | T <sub>opr</sub>  | ----                            | -25   | +85  | °C   |
| Storage Temperature   | T <sub>str</sub>  | ----                            | -30   | +85  | °C   |
| Solder Temperature    | T <sub>sol</sub>  | 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          | V <sub>F</sub> | I <sub>F</sub> =20mA | ----   | 1.9  | 2.3  | V    |
| Reverse Current          | I <sub>R</sub> | V <sub>R</sub> =5V   | ----   | ---- | 30   | μA   |
| Dominant Wavelength      | λ <sub>d</sub> | I <sub>F</sub> =20mA | ----   | 640  | ---- | nm   |
| Peak Wavelength          | λ <sub>p</sub> | I <sub>F</sub> =20mA | ----   | 660  | ---- | nm   |
| Spectral Line half-width | Δλ             | I <sub>F</sub> =20mA | ----   | 20   | ---- | nm   |
| Luminous Intensity       | I <sub>v</sub> | I <sub>F</sub> =10mA | ----   | 3500 | ---- | ucd  |



Typical electrical/optical characteristic curves:

