



## 0.56"(14.20mm)Three Digit 7 Segment Display

### Features:

- \*Ultra segment intensity
- \*Wide viewing angle
- \*Range of colors
- \*Black face White segment
- \*RoHS compliant

### Available option:

- \*Alternative face and segment color
- \*Alternative font
- \*Cropped terminal pins
- \*Available emitting color

### Electro/Optical Characteristics If=20mA Ta=25°C

| Part Number<br>Common Cathode | Part Number<br>Common Anode | Emitting Color            | Peak<br>Wavelength | Forward Voltage Vf/Seg. |      | Luminous Intensity Iv/Seg. |        |
|-------------------------------|-----------------------------|---------------------------|--------------------|-------------------------|------|----------------------------|--------|
|                               |                             |                           |                    | Typ.                    | Max. | Min.                       | Typ.   |
| NFD-5632AUHR-11               | NFD-5632BUHR-11             | AlGaInP/GaAs Ultra Red    | 640                | 2.00                    | 2.50 | 40.00                      | 60.00  |
| NFD-5632AUE-11                | NFD-5632BUE-11              | AlGaInP/GaAs Ultra Orange | 632                | 2.00                    | 2.50 | 40.00                      | 60.00  |
| NFD-5632AYO-11                | NFD-5632BYO-11              | AlGaInP/GaAs Ultra Amber  | 605                | 2.00                    | 2.50 | 40.00                      | 60.00  |
| NFD-5632AUY-11                | NFD-5632BUY-11              | AlGaInP/GaAs Ultra Yellow | 590                | 2.00                    | 2.50 | 40.00                      | 60.00  |
| NFD-5632AUG-11                | NFD-5632BUG-11              | AlGaInP/GaAs Ultra Green  | 574                | 2.10                    | 2.50 | 25.00                      | 40.00  |
| NFD-5632APG-11                | NFD-5632BPG-11              | InGaN/SiC Pure Green      | 525                | 3.30                    | 3.80 | 150.00                     | 200.00 |
| NFD-5632AUB-11                | NFD-5632BUB-11              | InGaN/SiC Ultra Blue      | 470                | 3.30                    | 3.80 | 40.00                      | 100.00 |
| NFD-5632AUW-11                | NFD-5632BUW-11              | InGaN/SiC Ultra White     | X-0.31/Y-0.31      | 3.30                    | 3.80 | 200.00                     | 500.00 |
| Units                         |                             |                           | nm                 | V                       |      | mcd                        |        |

### Maximum Ratings Ta=25°C (Derate above 25°C)

| Characteristic                 | Test Condition                     | Symbol           | UHR        | UE    | YO    | UY    | UG    | PG     | UB     | UW     | Units |
|--------------------------------|------------------------------------|------------------|------------|-------|-------|-------|-------|--------|--------|--------|-------|
| Pulse Forward Current Per Seg. | 1/10 duty cycle 0.1ms Pulse width  | I <sub>FP</sub>  | 100        | 100   | 100   | 100   | 100   | 100    | 100    | 100    | mA    |
| DC Forward Current Per Seg.    |                                    | I <sub>F</sub>   | 30         | 30    | 30    | 30    | 30    | 30     | 30     | 30     | mA    |
| Reverse Current Per Seg.       | V <sub>R</sub> =5V                 | I <sub>R</sub>   | 10         | 10    | 10    | 10    | 10    | 10     | 10     | 10     | μA    |
| Power Dissipation              |                                    | P <sub>D</sub>   | 65*24      | 65*24 | 65*24 | 65*24 | 75*24 | 110*24 | 120*24 | 120*24 | mW    |
| Operating Temperature          |                                    | T <sub>OPR</sub> | -40 to +80 |       |       |       |       |        |        |        | °C    |
| Storage Temperature            |                                    | T <sub>TSG</sub> | -40 to +85 |       |       |       |       |        |        |        | °C    |
| Lead soldering temperature     | 1.60mm from body maximum 3 seconds |                  | 260        |       |       |       |       |        |        |        | °C    |

Checked

Chen N.H.

Approved

Jason Chen

Date

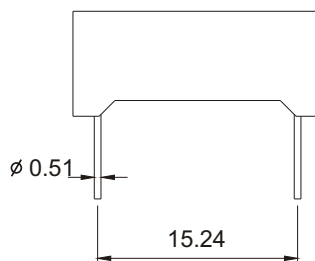
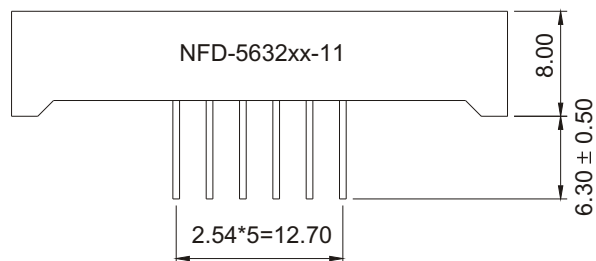
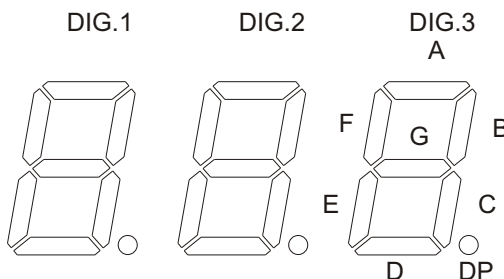
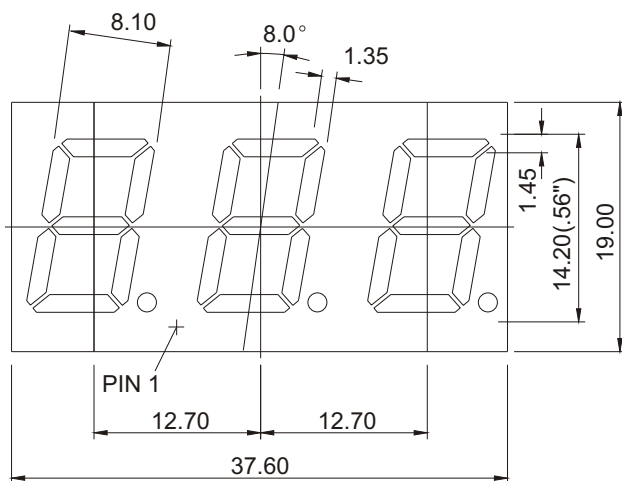
Nov/20/2006

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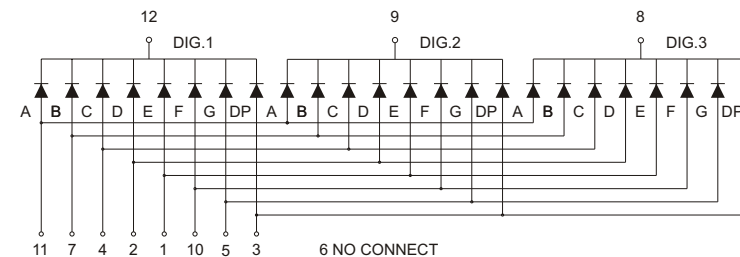
## PACKAGE DIMENSION



Tolerance  $\pm 0.25\text{mm}$  unless stated

## INTERNAL CIRCUIT DIAGRAM

### Common Cathode NFD-5632Ax



### Common Anode NFD-5632Bx

