



## 25.4mm X 10.1mm 10 Segment Single Color Light Bar

### Features:

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

### Available option:

- \*Alternative face and segment color
- \*Cropped terminal pins
- \*Available emitting color
- \*Low current version

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

| Part Number       | Emitting Color           | Peak Wavelength | Forward Voltage V <sub>F</sub> /Seg. |      | Luminous Intensity I <sub>v</sub> /Seg. |       |
|-------------------|--------------------------|-----------------|--------------------------------------|------|---|-------|
|                   |                          |                 | Typ.                                 | Max. | Min.                                    | Typ.  |
| NFA-R1025101ZH-11 | GaP/GaP Red              | 700             | 2.25                                 | 2.50 | 0.40                                    | 0.80  |
| NFA-R1025101ZS-11 | GaAlAs/GaAs SH Hi-Red    | 660             | 1.80                                 | 2.20 | 8.00                                    | 12.00 |
| NFA-R1025101ZD-11 | GaAlAs/GaAs DH Super Red | 660             | 1.80                                 | 2.20 | 22.00                                   | 28.00 |
| NFA-R1025101ZE-11 | GaAsP/GaP Orange         | 632             | 2.10                                 | 2.50 | 8.00                                    | 12.00 |
| NFA-R1025101ZY-11 | GaAsP/GaP Yellow         | 585             | 2.10                                 | 2.50 | 4.00                                    | 7.00  |
| NFA-R1025101ZG-11 | GaP/GaP Green            | 568             | 2.20                                 | 2.50 | 7.00                                    | 11.00 |
| Units             |                          | nm              | V                                    |      | mcd                                     |       |

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

| Characteristic                 | Test Condition                     | Symbol           | H          | S     | D     | E     | Y     | G     | Units |
|--------------------------------|------------------------------------|------------------|------------|-------|-------|-------|-------|-------|-------|
| Pulse Forward Current Per Seg. | 1/10 duty cycle 0.1ms Pulse width  | I <sub>FP</sub>  | 50         | 100   | 100   | 100   | 100   | 100   | mA    |
| DC Forward Current Per Seg.    |                                    | I <sub>F</sub>   | 15         | 25    | 25    | 30    | 30    | 30    | mA    |
| Reverse Current Per Seg.       | V <sub>R</sub> =5V                 | I <sub>R</sub>   | 10         | 10    | 10    | 10    | 10    | 10    | μA    |
| Power Dissipation              |                                    | P <sub>D</sub>   | 40*10      | 60*10 | 60*10 | 80*10 | 80*10 | 80*10 | 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

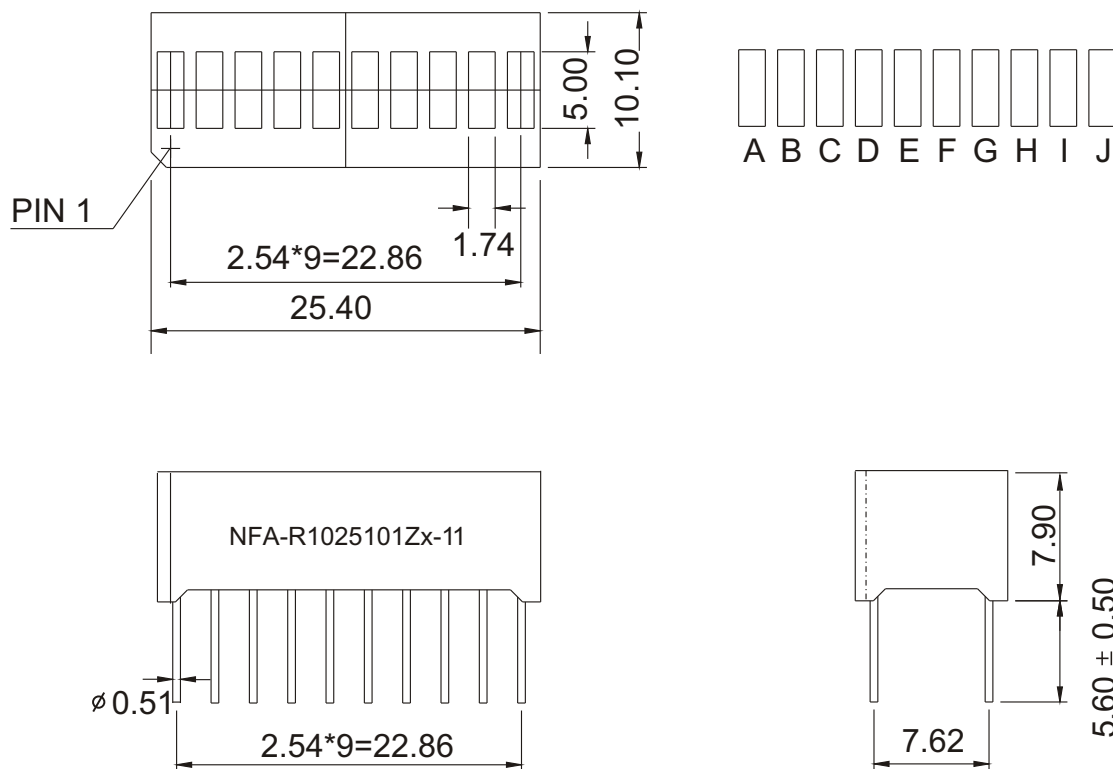
Jun/14/2007

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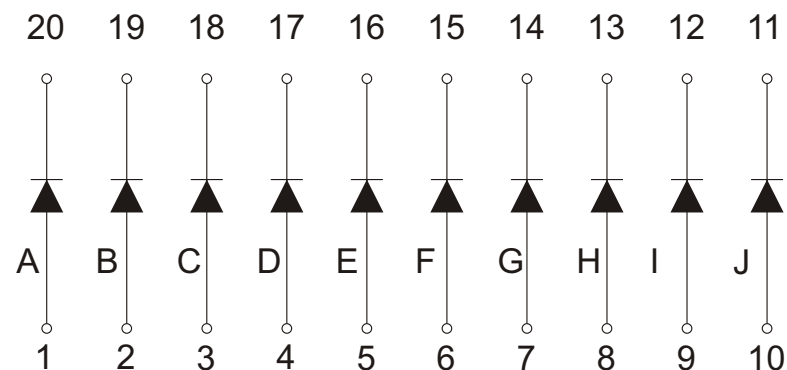
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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM

NFA-R1025101Zx



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

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