



## 1.20" (39.10mm) $\Phi$ 3.00mm 5\*7 Single Color Dot Matrix Displays

### Features:

- \*High dot intensity
- \*Wide viewing angle
- \*Range of colors
- \*Black face white dot
- \*RoHS compliant

### Available option:

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

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

| Part Number<br>Row Cathode Column Anode | Part Number<br>Row Anode Column Cathode | Emitting Color           | Peak<br>Wavelength | Forward Voltage V <sub>F</sub> /Dot |      | Luminous Intensity I <sub>v</sub> /Dot |       |
|-----------------------------------------|-----------------------------------------|--------------------------|--------------------|-------------------------------------|------|----------------------------------------|-------|
|                                         |                                         |                          |                    | Typ.                                | Max. | Min.                                   | Typ.  |
| NFM-12571AH-11-L4                       | NFM-12571BH-11-L4                       | GaP/GaP Red              | 700                | 2.25                                | 2.50 | 0.40                                   | 0.80  |
| NFM-12571AS-11-L4                       | NFM-12571BS-11-L4                       | GaAlAs/GaAs SH Hi-Red    | 660                | 1.80                                | 2.20 | 8.00                                   | 12.00 |
| NFM-12571AD-11-L4                       | NFM-12571BD-11-L4                       | GaAlAs/GaAs DH Super Red | 660                | 1.80                                | 2.20 | 22.00                                  | 28.00 |
| NFM-12571AE-11-L4                       | NFM-12571BE-11-L4                       | GaAsP/GaP Orange         | 632                | 2.10                                | 2.50 | 8.00                                   | 12.00 |
| NFM-12571AY-11-L4                       | NFM-12571BY-11-L4                       | GaAsP/GaP Yellow         | 585                | 2.10                                | 2.50 | 4.00                                   | 7.00  |
| NFM-12571AG-11-L4                       | NFM-12571BG-11-L4                       | 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 Dot | 1/10 duty cycle 0.1ms Pulse width  | I <sub>FP</sub>  | 50         | 100   | 100   | 100   | 100   | 100   | mA    |
| DC Forward Current Per Dot    |                                    | I <sub>F</sub>   | 15         | 25    | 25    | 30    | 30    | 30    | mA    |
| Reverse Current Per Dot       | V <sub>R</sub> =5V                 | I <sub>R</sub>   | 10         | 10    | 10    | 10    | 10    | 10    | μA    |
| Power Dissipation             |                                    | P <sub>D</sub>   | 40*35      | 60*35 | 60*35 | 80*35 | 80*35 | 80*35 | 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

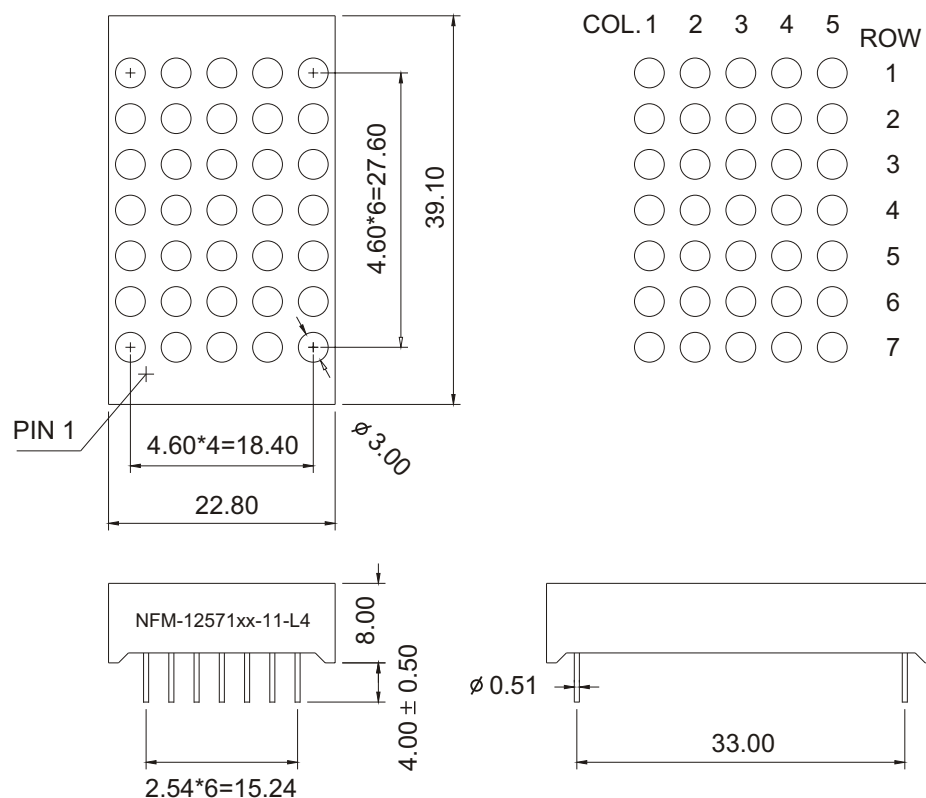
Mar/10/2007

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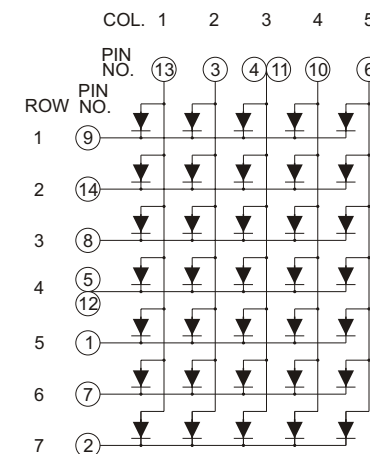
### PACKAGE DIMENSION



Tolerance  $\pm 0.25$ mm unless stated

### INTERNAL CIRCUIT DIAGRAM

Row Cathode  
Column Anode  
NFM-12571Ax



Row Anode  
Column Cathode  
NFM-12571Bx

