



**18.00” (440.00mm)Lamp Segment Displays**

**Electro/Optical Characteristics If=80mA Ta=25°C**

| Part Number         | Emitting Color       | Peak Wavelength | Forward Voltage $V_F$ /Seg. |       | Luminous Intensity $I_V$ /Seg. |            | Viewing Angle  |
|---------------------|----------------------|-----------------|-----------------------------|-------|--------------------------------|------------|----------------|
|                     |                      |                 | Typ.                        | Max.  | Min.                           | Typ.       | 2 $\theta$ 1/2 |
| NFDL-180011DUE-501C | AlGaInP Ultra Orange | 632             | 42.00                       | 46.20 | 84*1800.00                     | 84*3000.00 | 20             |
|                     |                      |                 |                             |       |                                |            |                |
|                     |                      |                 |                             |       |                                |            |                |
|                     |                      |                 |                             |       |                                |            |                |
|                     |                      |                 |                             |       |                                |            |                |
|                     |                      |                 |                             |       |                                |            |                |
| Units               |                      | nm              | V                           |       | mcd                            |            | degree         |

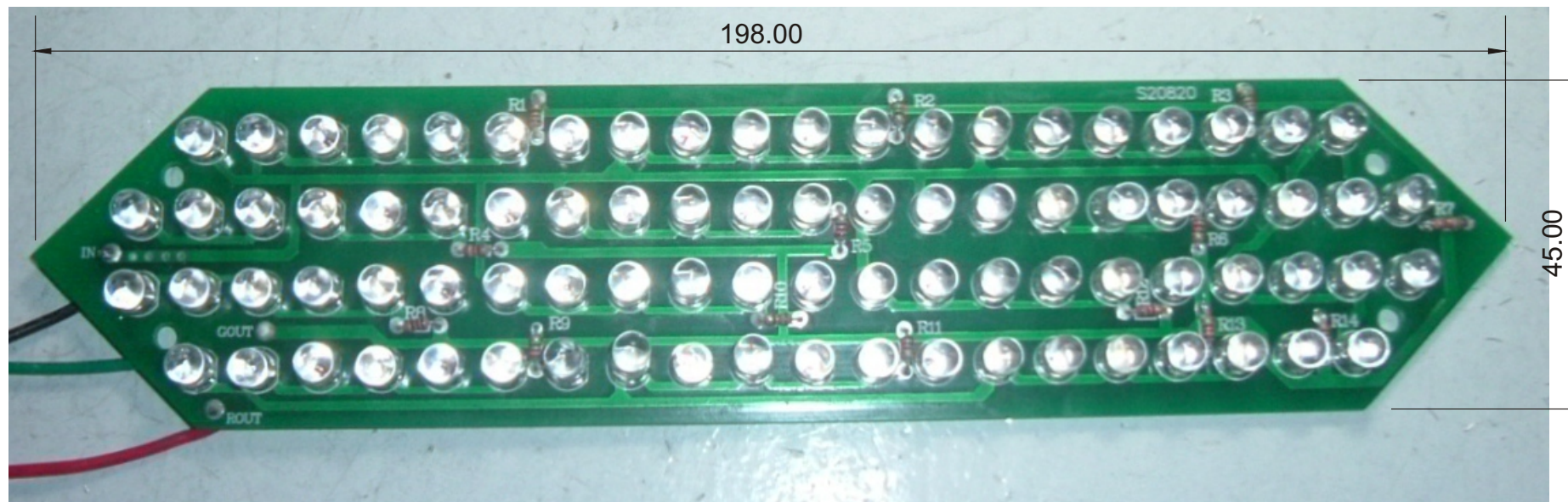
**Maximum Ratings Ta=25°C (Derate above 25°C)**

| Characteristic                | Test Condition                     | Symbol    | UE         |  |  | Units   |
|-------------------------------|------------------------------------|-----------|------------|--|--|---------|
| Pulse Forward Current Per Dot | 1/10 duty cycle 0.1ms Pulse width  | $I_{FP}$  | 400        |  |  | mA      |
| DC Forward Current Per Dot    |                                    | $I_F$     | 100        |  |  | mA      |
| Reverse Current Per Dot       | $V_R=50V$                          | $I_R$     | 10         |  |  | $\mu A$ |
| Power Dissipation             |                                    | $P_D$     | 65*84      |  |  | mW      |
| Operating Temperature         |                                    | $T_{OPR}$ | -40 to +80 |  |  | °C      |
| Storage Temperature           |                                    | $T_{TSG}$ | -40 to +85 |  |  | °C      |
| Lead soldering temperature    | 1.60mm from body maximum 3 seconds |           | 260        |  |  | °C      |

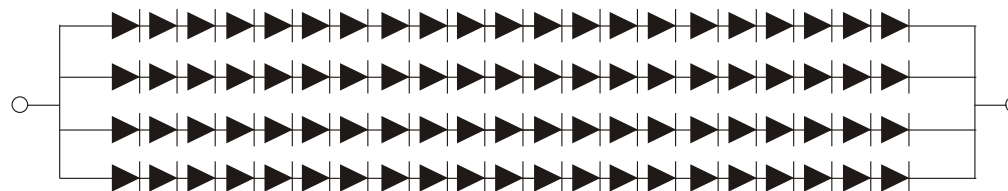


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### PACKAGE DIMENSION



### INTERNAL CIRCUIT DIAGRAM



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

Checked

Chen N.H.

Approved

Jason Chen

Date

Nov/06/2009

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