



Revision: -



BNS-OD-FC001/A4

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## **FEATURES**

\* 0.3 inch (7.62 mm) DIGIT HEIGHT.
\* CONTINUOUS UNIFORM SEGMENTS.
\* LOW POWER REQUIREMENT.
\* EXCELLENT CHARACTERS APPEARANCE.
\* HIGH BRIGHTNESS & HIGH CONTRAST.
\* WIDE VIEWING ANGLE.
\* SOLID STATE RELIABILITY.
\* CATEGORIZED FOR LUMINOUS INTENSITY.

## DESCRIPTION

The LTD-322JR is a 0.3 inch (7.62 mm) digit height display. This device utilizes AlInGaP Super Red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a black face and white segments.

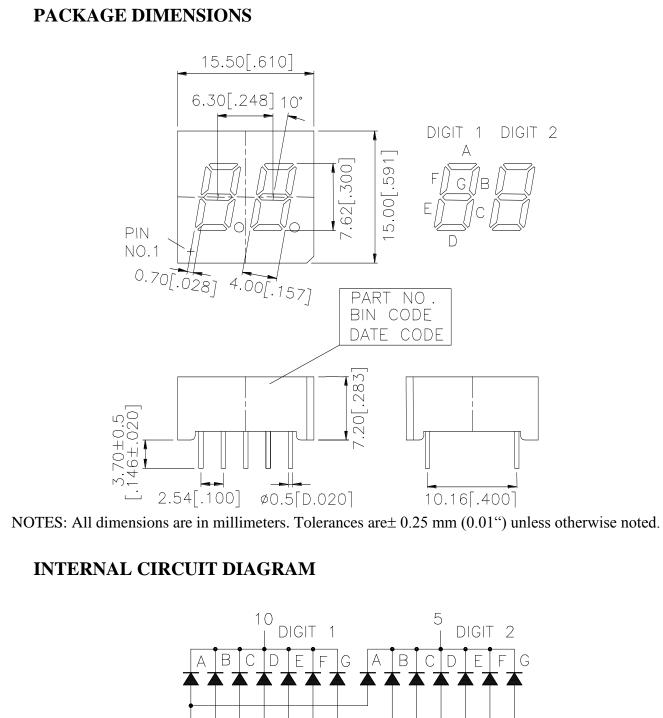
# DEVICE

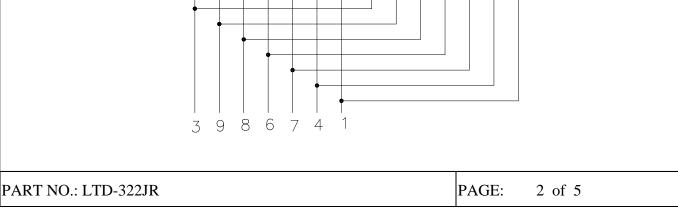
| PART NO.          | DESCRIPTION           |  |  |
|-------------------|-----------------------|--|--|
| AlInGaP Super Red |                       |  |  |
| LTD-322JR         | Duplex Common Cathode |  |  |

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|---------------------|-------|--------|
|---------------------|-------|--------|

### BNS-OD-C131/A4

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## **PIN CONNECTION**

| No | CONNECTION               |
|----|--------------------------|
| 1  | ANODE G                  |
| 2  | NO PIN                   |
| 3  | ANODE A                  |
| 4  | ANODE F                  |
| 5  | COMMON CATHODE (DIGIT 2) |
| 6  | ANODE D                  |
| 7  | ANODE E                  |
| 8  | ANODE C                  |
| 9  | ANODE B                  |
| 10 | COMMON CATHODE (DIGIT 1) |

PART NO.: LTD-322JR

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## ABSOLUTE MAXIMUM RATING AT Ta=25°C

| PARAMETER  | MAXIMUM RATING                     | UNIT  |  |  |
|--|------------------------------------|-------|--|--|
| Power Dissipation Per Segment  | 70                                 | mW    |  |  |
| Peak Forward Current Per Segment<br>(1/10 Duty Cycle, 0.1ms Pulse Width)           | 90                                 | mA    |  |  |
| Continuous Forward Current Per Segment   | 25                                 | mA    |  |  |
| Derating Linear From 25°C Per Segment  | 0.33                               | mA/°C |  |  |
| Reverse Voltage Per Segment  | 5                                  | V     |  |  |
| Operating Temperature Range  | $-35^{\circ}$ C to $+85^{\circ}$ C |       |  |  |
| Storage Temperature Range  | -35°C to +85°C                     |       |  |  |
| Solder Temperature: max $260^{\circ}$ C for max 3sec at 1.6mm below seating plane. |                                    |       |  |  |

# ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

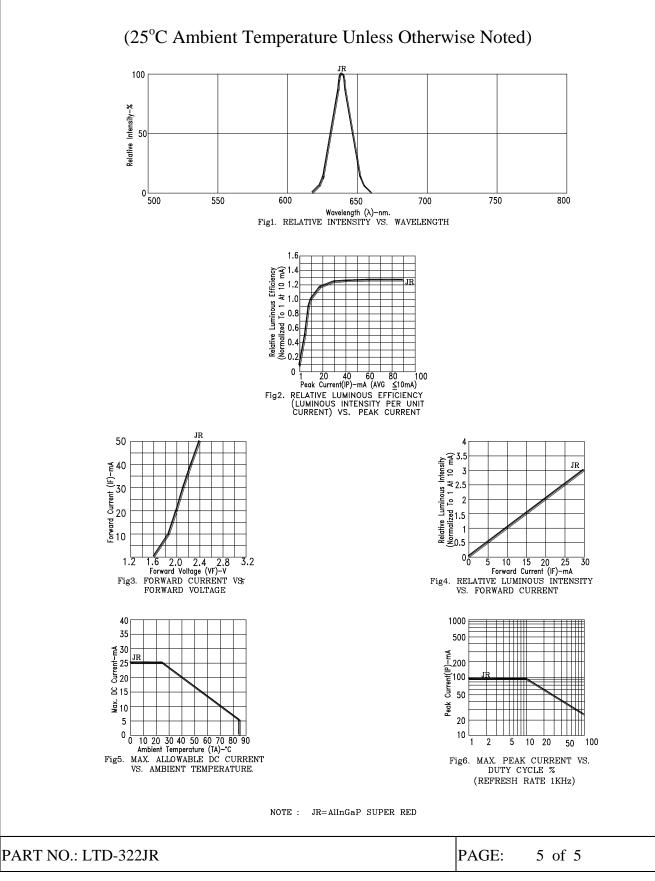
| PARAMETER                         | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION     |
|-----------------------------------|--------|------|------|------|------|--------------------|
| Average Luminous Intensity        | Iv     | 200  | 600  |      | μcd  | IF=1mA             |
| Peak Emission Wavelength          | λp     |      | 639  |      | nm   | IF=20mA            |
| Spectral Line Half-Width          | Δλ     |      | 20   |      | nm   | IF=20mA            |
| Dominant Wavelength               | λd     |      | 631  |      | nm   | IF=20mA            |
| Forward Voltage Per Segment       | VF     |      | 2.0  | 2.6  | V    | IF=20mA            |
| Reverse Current Per Segment       | Ir     |      |      | 100  | μΑ   | V <sub>R</sub> =5V |
| Luminous Intensity Matching Ratio | Iv-m   |      |      | 2:1  |      | IF=1mA             |

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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## **TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**



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