



Spec No.: DS30-2001-319 Effective Date: 10/19/2001 Revision: -



BNS-OD-FC001/A4

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FEATURES

* 0.4 inch (10.0 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-4608JS is a 0.4 inch (10.0 mm) digit height dual digit seven-segment display. This device utilizes AlInGaP Yellow LED chips, which are made from AlInGaP on a transparent GaAs substrate, and has a gray face and white segments.

DEVICE

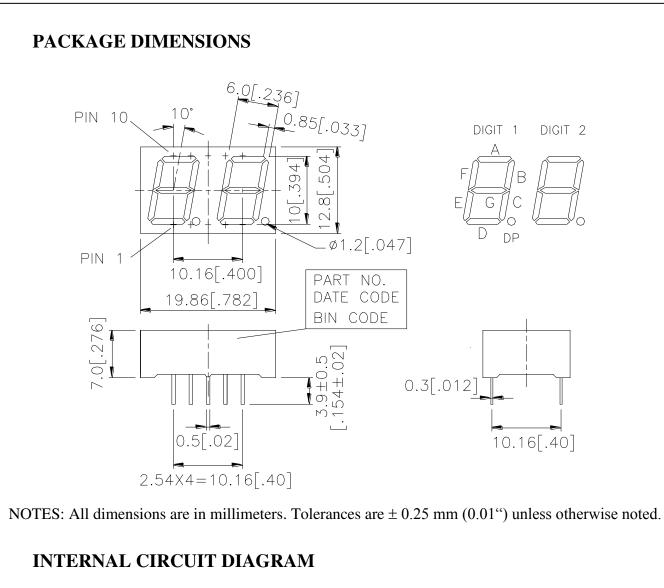
| PART NO. | DESCRIPTION | | | |
|----------------|---------------------|--|--|--|
| AlInGaP Yellow | Duplex Common Anode | | | |
| LTD-4608JS | Rt. Hand Decimal | | | |

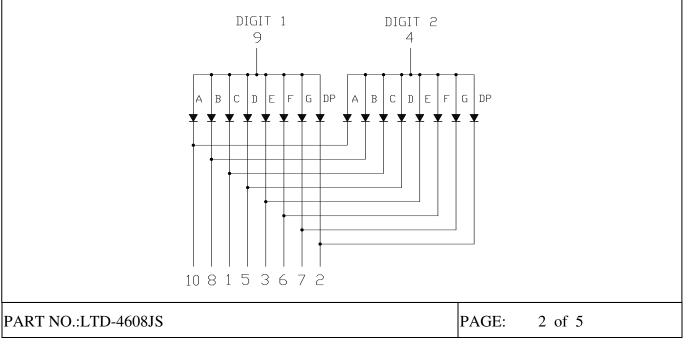
| PART NO.:LTD-4608 |
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PIN CONNECTION

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

PART NO.:LTD-4608JS

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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 (1/10 Duty Cycle, 0.1ms Pulse Width) | 60 | 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°C to +85°C | | | | |
| Storage Temperature Range | Temperature Range -35° Cto $+85^{\circ}$ C | | | | |
| Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane. | | | | | |

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

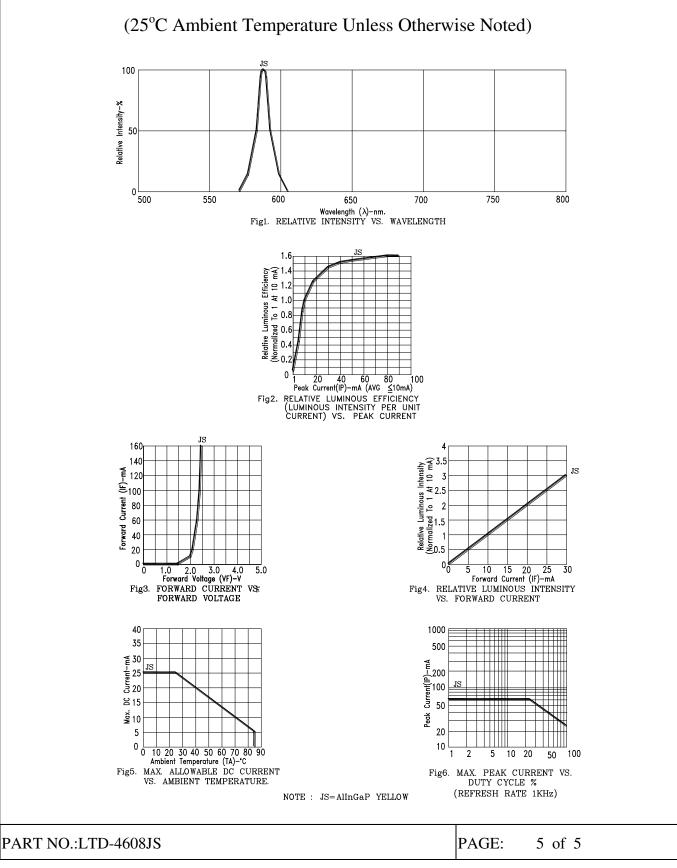
| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|-----------------------------------|--------|------|------|------|------|--------------------|
| Average Luminous Intensity | Iv | 200 | 650 | | μcd | IF=1mA |
| Peak Emission Wavelength | λp | | 588 | | nm | IF=20mA |
| Spectral Line Half-Width | Δλ | | 15 | | nm | IF=20mA |
| Dominant Wavelength | λd | | 587 | | nm | IF=20mA |
| Forward Voltage Per Segment | VF | | 2.05 | 2.6 | V | IF=20mA |
| Reverse Current Per Segment | Ir | | | 100 | μΑ | V _R =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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