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BNS-OD-FC001/A4

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FEATURES

* 0.56 inch (14.22 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

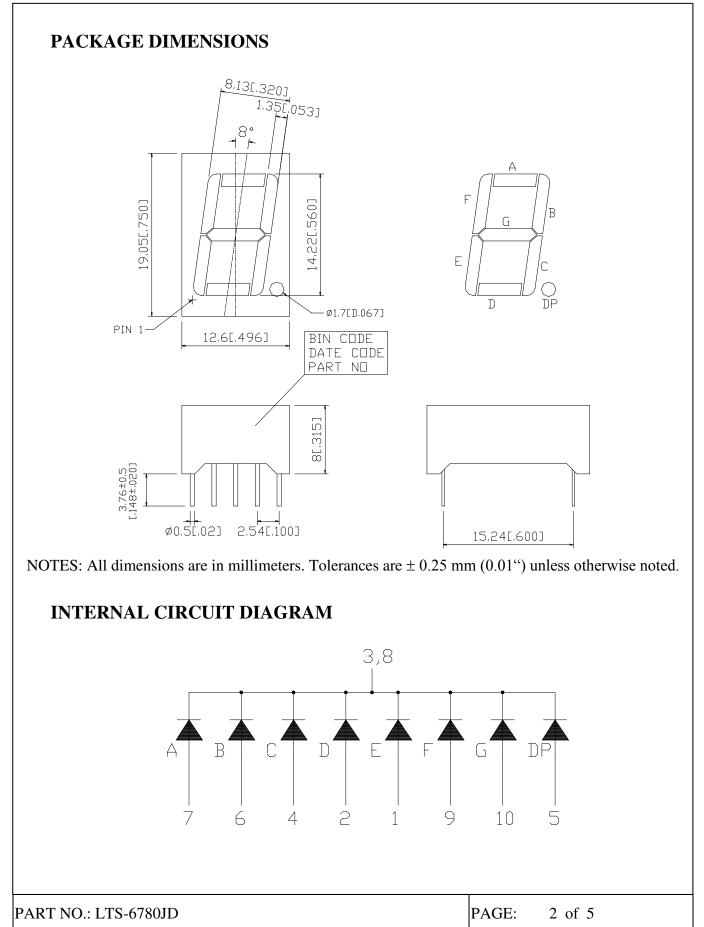
The LTS-6780JD is a 0.56 inch (14.22 mm) digit height single digit seven-segment display. This device utilizes AlInGaP Hyper Red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

DEVICE

| PART NO. | DESCRIPTION | | |
|-------------------|------------------|--|--|
| AlInGaP HYPER RED | Common Cathode | | |
| LTS-6780JD | Rt. Hand Decimal | | |

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PIN CONNECTION

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

PART NO.: LTS-6780JD

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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) | 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°C to +85°C | | | | |
| Storage Temperature Range | -35°C to +85°C | | | | |
| Solder Temperature: max 260° C for max 3sec at 1.6mm below seating plane. | | | | | |

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

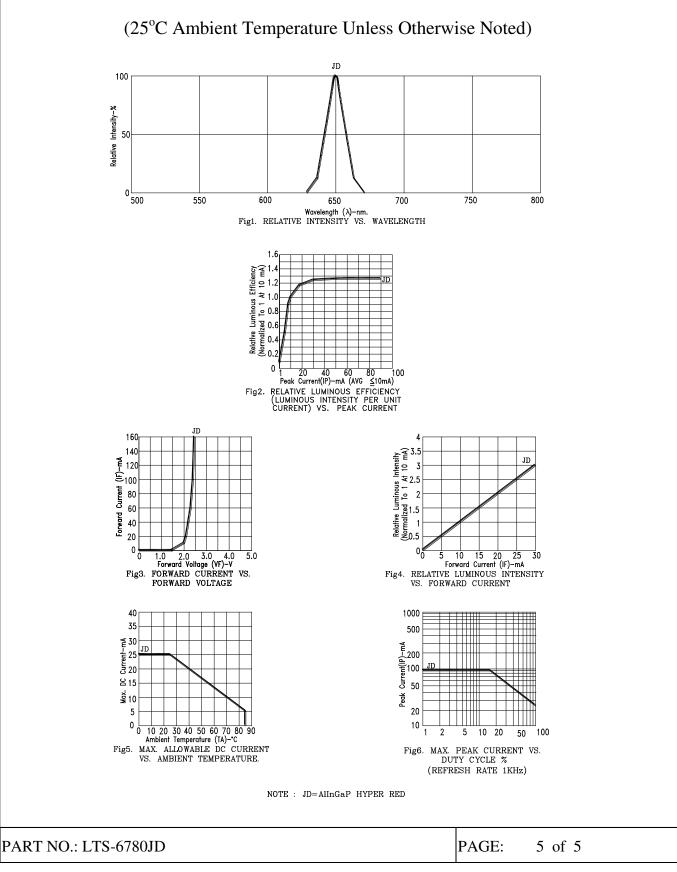
| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|-----------------------------------|--------|------|------|------|------|--------------------|
| Average Luminous Intensity | Iv | 320 | 700 | | μcd | IF=1mA |
| Peak Emission Wavelength | λp | | 650 | | nm | IF=20mA |
| Spectral Line Half-Width | Δλ | | 20 | | nm | IF=20mA |
| Dominant Wavelength | λd | | 639 | | nm | IF=20mA |
| Forward Voltage Per Segment | VF | | 2.1 | 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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