



LED Display Product Data Sheet LTS-3361JD

Spec No.: DS30-2001-436

Effective Date: 09/30/2003

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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

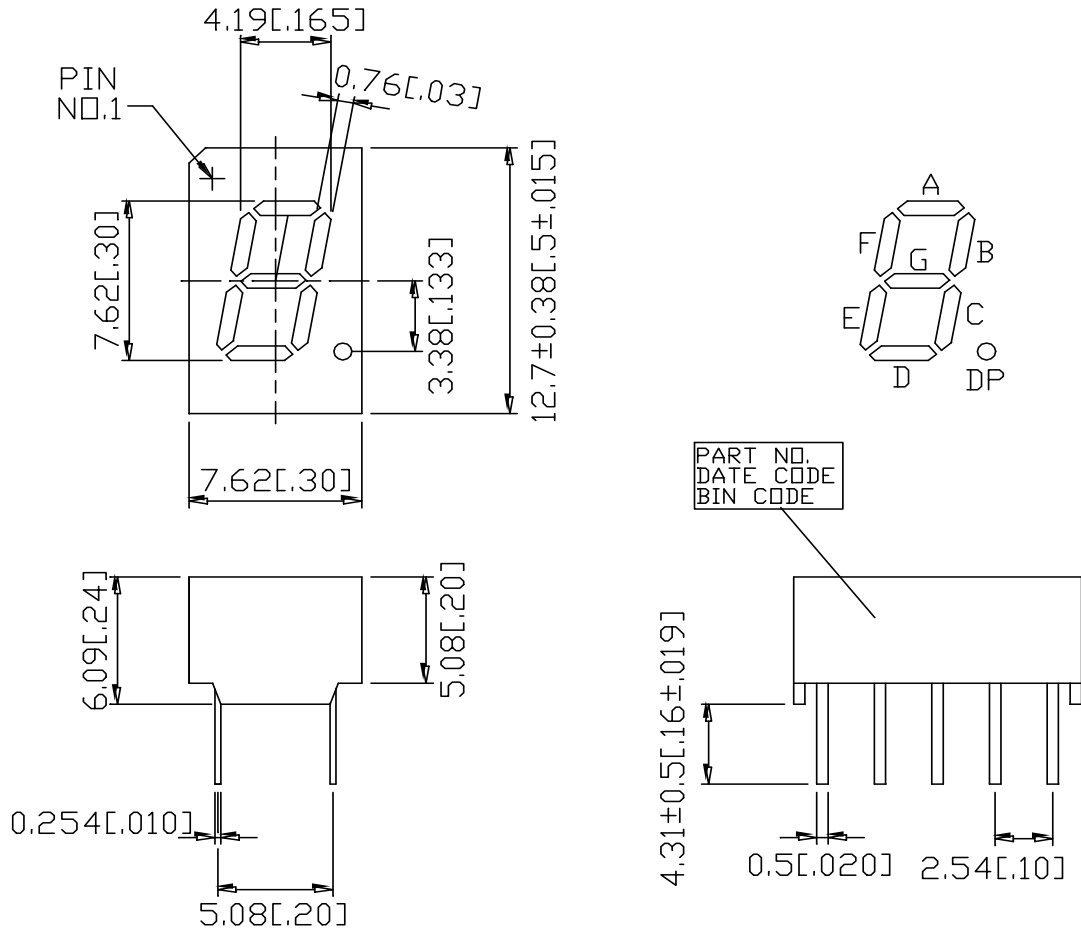
DESCRIPTION

The LTS-3361JD is a 0.3 inch (7.62 mm) height digit display. The device uses AS-AllnGaP HYPER RED LED chips (AllnGaP epi on GaAs substrate). The display has light gray face and white segments.

DEVICE

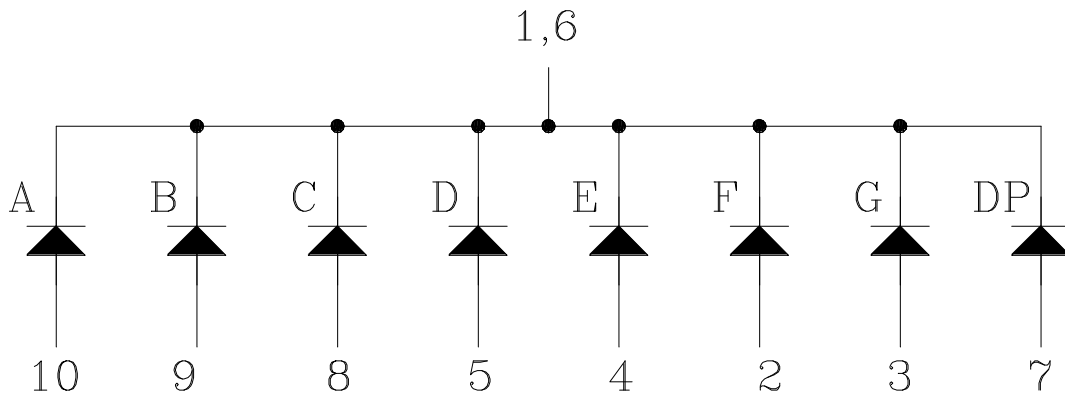
| PART NO. | DESCRIPTION |
|-------------------|--------------------|
| AllnGaP HYPER RED | Common Cathode |
| LTS-3361JD | Rt. Hande Decimal |

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

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

ABSOLUTE MAXIMUM RATING

| PARAMETER | MAXIMUM RATING | UNIT |
|--|--|--------------------|
| Power Dissipation Per Segment | 70 | mW |
| Peak Forward Current Per Segment (Frequency 1Khz, 18% duty cycle) | 90 | mA |
| Continuous Forward Current Per Segment | 25 | mA |
| Forward Current Derating from 25 ⁰ C | 0.33 | mA/ ⁰ C |
| Reverse Voltage Per Segment | 5 | V |
| Operating Temperature Range | -35 ⁰ C to +85 ⁰ C | |
| Storage Temperature Range | -35 ⁰ C to +85 ⁰ C | |
| Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 ⁰ C | | |

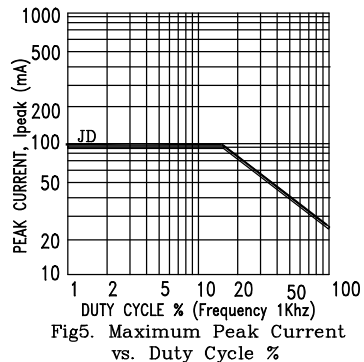
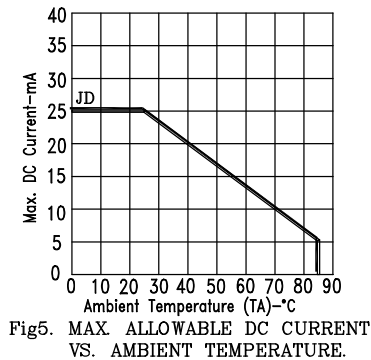
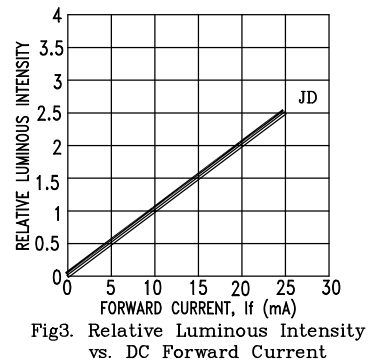
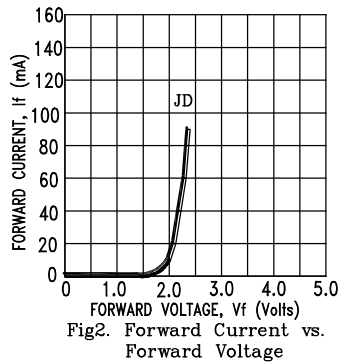
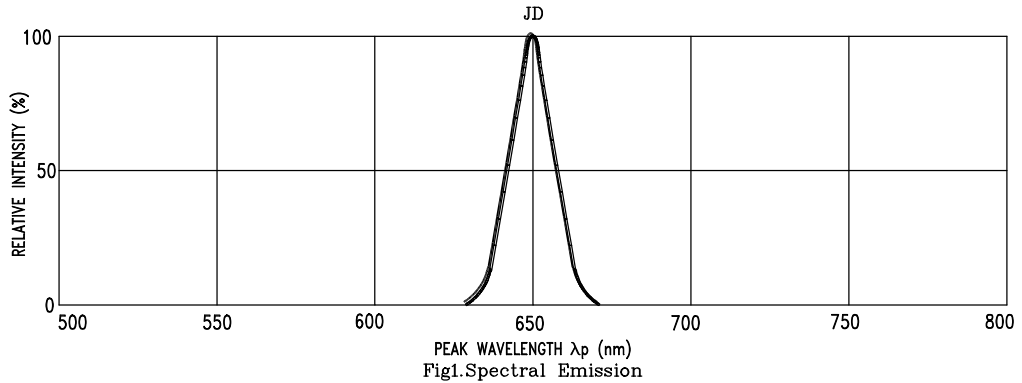
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25⁰C

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|--|-------------------|------|------|------|------|----------------------|
| Average Luminous Intensity Per Segment | I _v | 200 | 600 | | μcd | I _F =1mA |
| Peak Emission Wavelength | λ _p | | 650 | | nm | I _F =20mA |
| Spectral Line Half-Width | Δλ | | 20 | | nm | I _F =20mA |
| Dominant Wavelength | λ _d | | 639 | | nm | I _F =20mA |
| Forward Voltage Per Segment | V _F | | 2.1 | 2.6 | V | I _F =20mA |
| Reverse Current Per Segment | I _R | | | 100 | μA | V _R =5V |
| Luminous Intensity Matching Ratio | I _v -m | | | 2:1 | | I _F =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.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : JD=AlInGaP HYPER RED

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