



LED Display

Product Data Sheet

LTC-4627JD

Spec No.: DS30-2001-093

Effective Date: 04/13/2011

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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LED DISPLAY**LTC-4627JD**
DATA SHEET

| <u>ITEM</u> | <u>Description</u> | <u>By</u> | <u>DATE</u> |
|--------------------|---------------------------|------------------|--------------------|
| 1 | New Spec | Meg Huang | 2001/03/16 |
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FEATURES

- * 0.4inch (10.0mm) 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.
- * **LEAD-FREE PACKAGE (ACCORDING TO ROHS)**

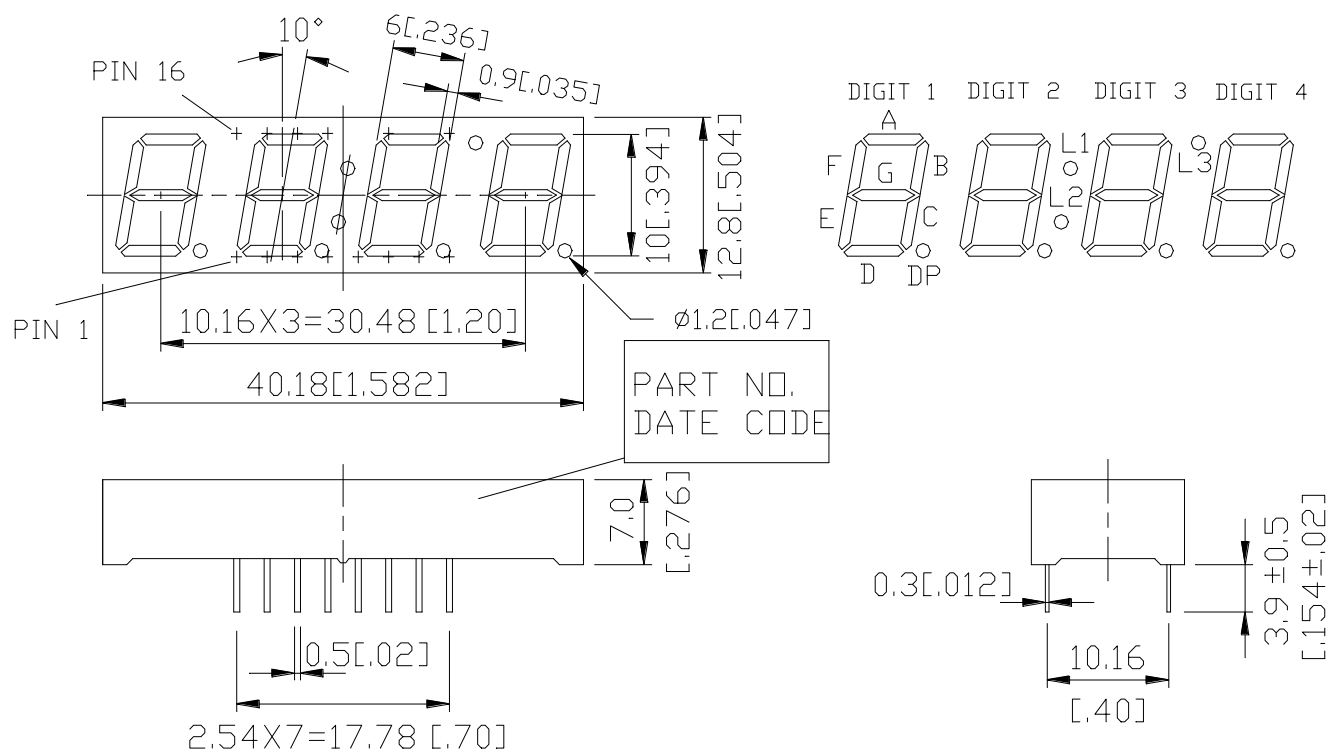
DESCRIPTION

The LTC-4627JD is a 0.4inch (10.0 mm) digit height quadruple 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

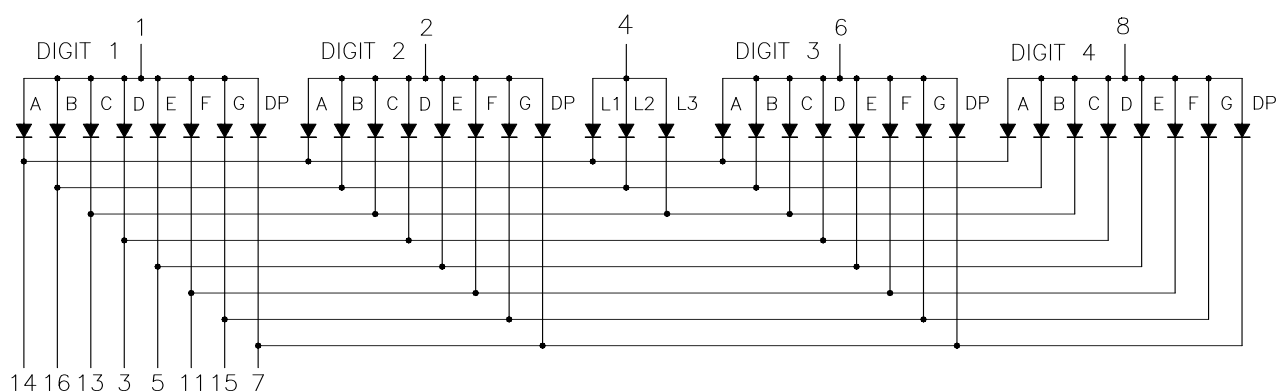
| PART NO. | DESCRIPTION |
|-------------------|--|
| AlInGaP HYPER RED | Multiplex Common Anode Rt. Hand Decimal |
| LTC-4627JD | |

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 ANODE DIGIT 1 |
| 2 | COMMON ANODE DIGIT 2 |
| 3 | CATHODE D |
| 4 | COMMON ANODE L1,L2,L3 |
| 5 | CATHODE E |
| 6 | COMMON ANODE DIGIT 3 |
| 7 | CATHODE DP |
| 8 | COMMON ANODE DIGIT 4 |
| 9 | NO CONNECTION |
| 10 | NO PIN |
| 11 | CATHODE F |
| 12 | NO PIN |
| 13 | CATHODE C,L3 |
| 14 | CATHODE A,L1 |
| 15 | CATHODE G |
| 16 | CATHODE B,L2 |

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 |
| 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[1/16inch] below seating plane. | | |

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

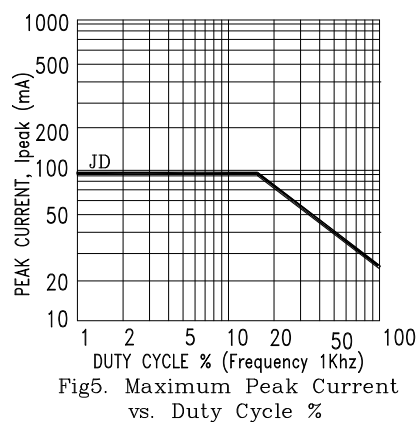
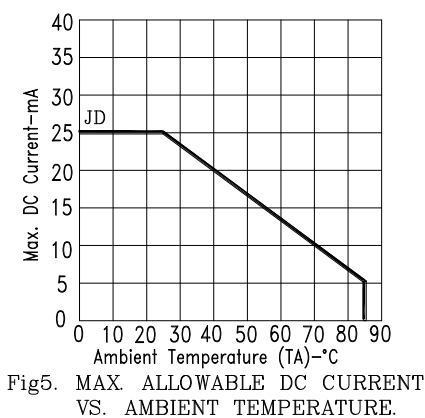
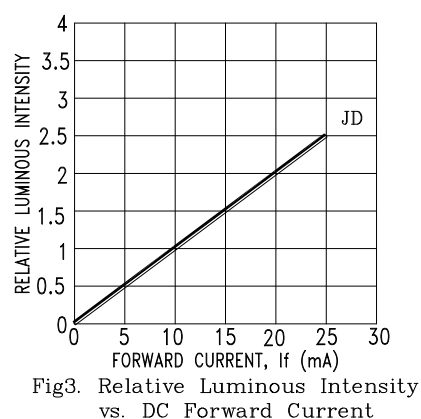
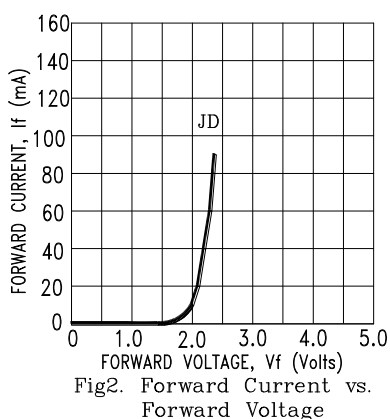
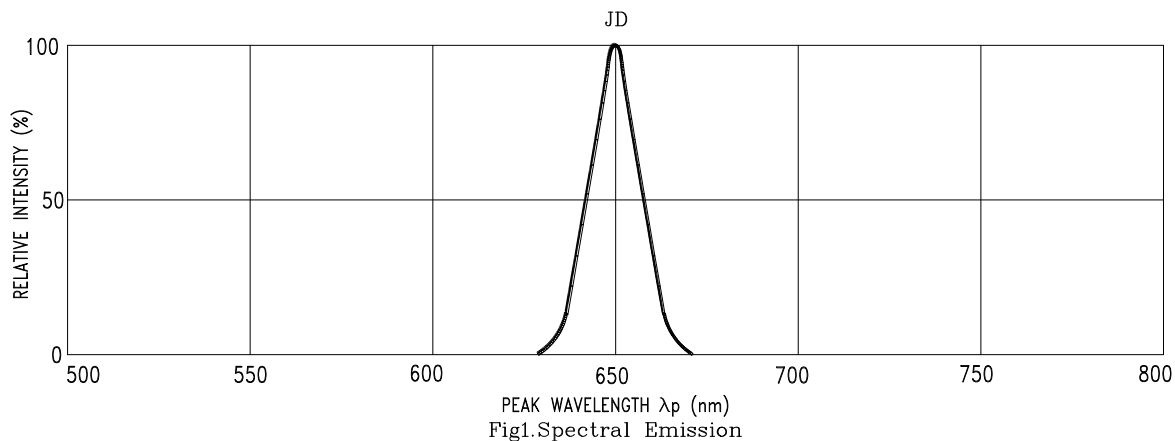
| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|--|-------------------|------|------|------|------|----------------------|
| Average Luminous Intensity | I _v | 200 | 650 | | μcd | I _F =1mA |
| Peak Emission Wavelength | λ _p | | 650 | | nm | I _F =20mA |
| Spectral Line Half-Width | 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 ⁽²⁾ | I _R | | | 100 | μA | V _R =5V |
| Luminous Intensity Matching Ratio | I _v -m | | | 2:1 | | I _F =1mA |

Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.
2. Reverse voltage is only for IR test. It can not continue to operate at this situation.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : JD=AlInGaP HYPER RED

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