



Spec No.: DS-30-99-658 Effective Date: 06/09/2010 Revision: A



BNS-OD-FC001/A4

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LITEON LITE-ON TECHNOLOGY CORPORATION Property of Lite-on Only

FEATURES

* 0.28-inch (7.0-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

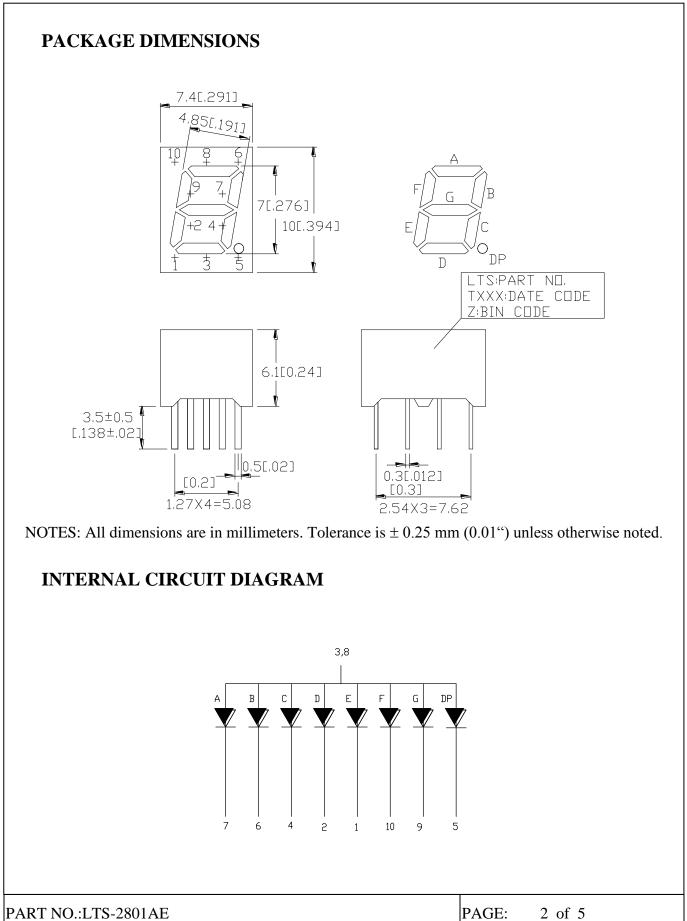
The LTS-2801AE is a 0.28-inch (7.0-mm) digit height single digit seven-segment display. This device utilizes red orange LED chips, which are made from GaAsP on a transparent GaP substrate, and has a gray face and white segments.

DEVICE

| PART NO. | DESCRIPTION | | | |
|------------|------------------|--|--|--|
| RED ORANGE | Common Anode | | | |
| LTS-2801AE | Rt. Hand Decimal | | | |

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BNS-OD-C131/A4

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PIN CONNECTION

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

PART NO.:LTS-2801AE

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ABSOLUTE MAXIMUM RATING AT T_A=25°C

| PARAMETER | MAXIMUM RATING | UNIT | | | |
|--|----------------|-------|--|--|--|
| Power Dissipation Per Segment | 75 | mW | | | |
| Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | 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. | | | | | |

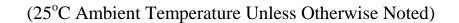
ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

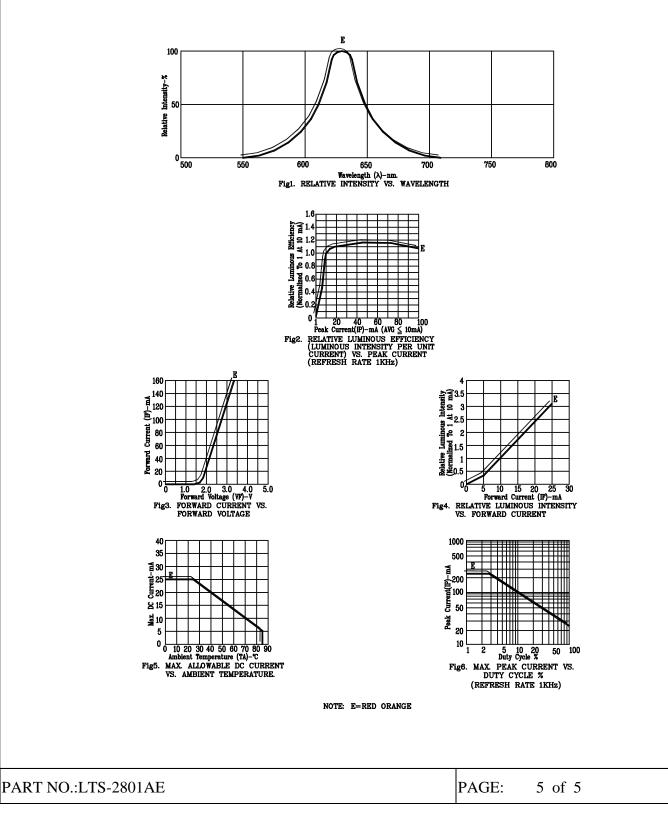
| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|-----------------------------------|--------|------|------|------|------|--------------------|
| Average Luminous Intensity | Iv | 800 | 2000 | | μcd | IF=10mA |
| Peak Emission Wavelength | λp | | 630 | | nm | IF=20mA |
| Spectral Line Half-Width | Δλ | | 40 | | nm | IF=20mA |
| Dominant Wavelength | λd | | 621 | | nm | IF=20mA |
| Forward Voltage Per Segment | VF | | 2.0 | 2.6 | V | IF=20mA |
| Reverse Current Per Segment | Ir | | | 100 | μΑ | V _R =5V |
| Luminous Intensity Matching Ratio | Iv-m | | | 2:1 | | IF=10mA |

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commission international DE L'clariage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES





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