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

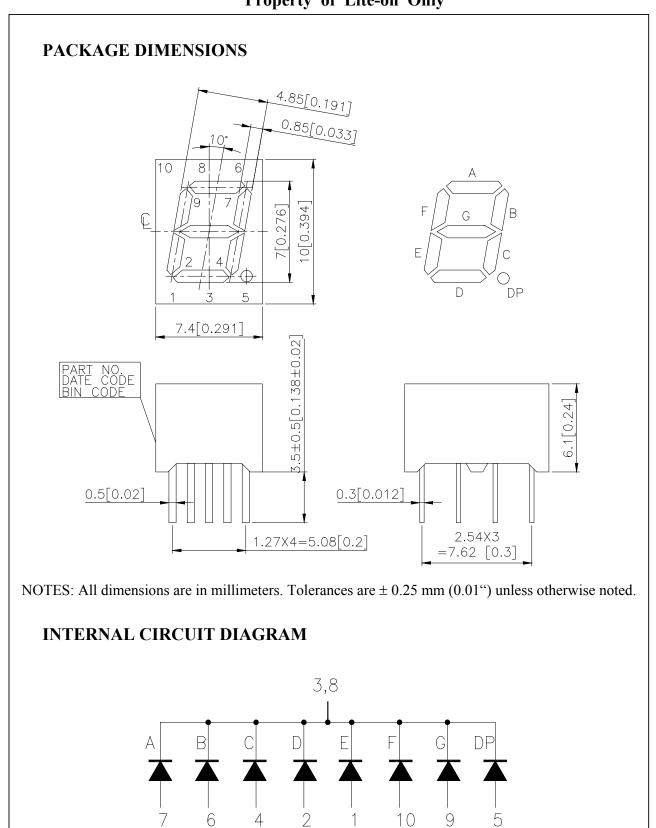
The LTS-2301AB is a 0.28-inch (7.0-mm) digit height single digit seven-segment display. This device utilizes blue LED chips, which are made from GaN on a SiC substrate, and has a gray face and white segments.

DEVICE

| PART NO. | DESCRIPTION | | | |
|------------|------------------|--|--|--|
| BLUE | Common Cathode | | | |
| LTS-2301AB | Rt. Hand Decimal | | | |



LITE-ON TECHNOLOGY CORPORATION Property of Lite-on Only



PAGE:

2 of 5

PART NO.: LTS-2301AB

BNS-OD-C131/A4



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

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 G |
| 10 | ANODE F |

| | PART NO.: LTS-2301AB |
|--|----------------------|
|--|----------------------|

LITEON LITE-ON TECHNOLOGY CORPORATION

Property of Lite-on Only

ABSOLUTE MAXIMUM RATING AT Ta=25°C

| PARAMETER | MAXIMUM RA | ATING UNIT | | |
|--|------------|------------|--|--|
| Power Dissipation Per Segment | 115 | 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 Per Segment | 0.33 | mA/ | | |
| Reverse Voltage Per Segment | 5 | V | | |
| Operating Temperature Range | -35 | to +85 | | |
| Storage Temperature Range | -35 | to +85 | | |
| Solder Temperature: max 260 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 | 1000 | 3000 | | μcd | IF=10mA |
| Peak Emission Wavelength | λp | | 428 | | nm | I _F =20mA |
| Spectral Line Half-Width | Δλ | | 65 | | nm | IF=20mA |
| Dominant Wavelength | λd | | 466 | | nm | IF=20mA |
| Forward Voltage Per Segment | VF | | 3.8 | 4.5 | V | IF=20mA |
| Reverse Current Per Segment | Ir | | | 100 | μA | V _R =5V |
| Luminous Intensity Matching Ratio | Iv-m | | | 2:1 | | I _F =10mA |

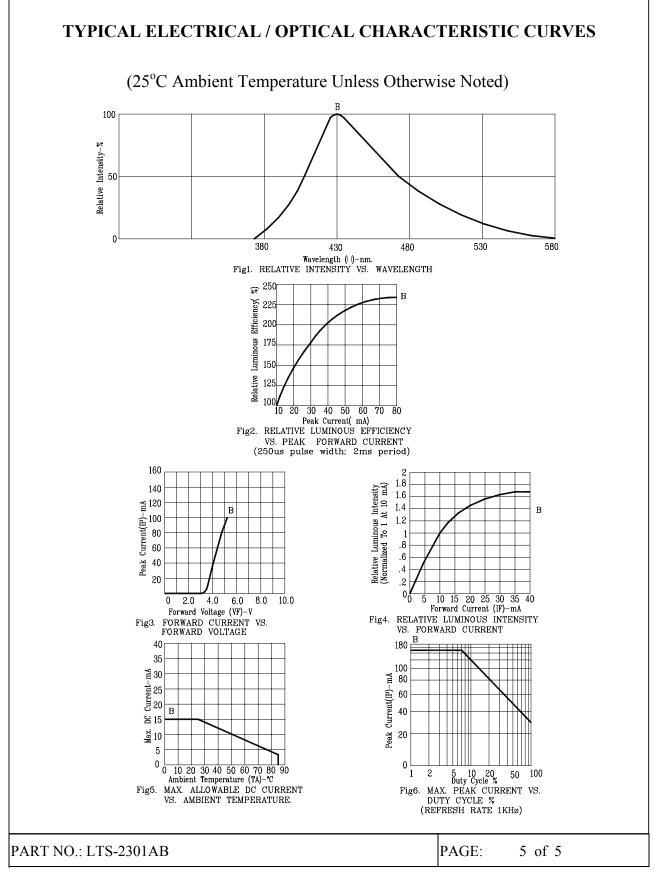
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

| PART NO.: LTS-2301AB | PAGE: | 4 of 5 |
|----------------------|-------|--------|

BNS-OD-C131/A4



LITE-ON TECHNOLOGY CORPORATION Property of Lite-on Only



BNS-OD-C131/A4