



Spec No.: DS-30-98-019 Effective Date: 01/26/2005 Revision: A



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

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#### **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 \* LEAD-FREE PACKAGE (ACCORDING TO ROHS)

## DESCRIPTION

The LTS-2301AWC is a 0.28 inch (7-mm) digit height single digit low current seven-segment display. This device uses AlGaAs red LED chips(AlGaAs epi on GaAs substrate). The display has gray face and white segments.

This low current seven-segment display is designed to perform under low power consumption. It is tested and selected for it's excellent low current characteristics. It can be driven in low current condition and the segments are matched. This driving current as low as 1mA per segment is applicable.

#### DEVICE

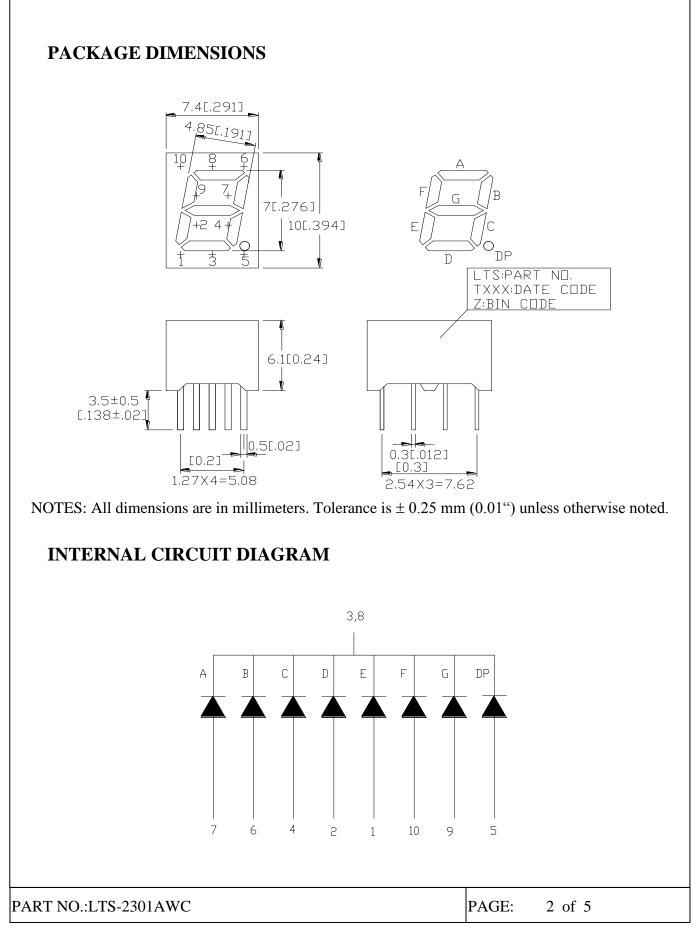
PART NO.	DESCRIPTION		
AlGaAs RED	Common Cathode		
LTS-2301AWC	Rt. Hand Decimal		

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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 G
10	ANODE F

PART NO.:LTS-2301AWC

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## ABSOLUTE MAXIMUM RATING

MAXIMUM RATING	UNIT
75	mW
125*	mA
30	mA
0.4	mA/°C
5	V
$-35^{\circ}$ C to $+85^{\circ}$ C	
$-35^{\circ}$ C to $+85^{\circ}$ C	
	75 125* 30 0.4 5 -35°C to +85°C

Soldering Conditions: 1/16 inch below eating plane for 3 seconds at  $260^{\circ}$ C.

\* see figure 5 to establish pulsed condition

## ELECTRICAL / OPTICAL CHARACTERISTICS AT T<sub>A</sub>=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	600		μcd	IF=1mA
			3400		μcd	IF=5mA
Peak Emission Wavelength	λp		660		nm	IF=20mA
Spectral Line Half-Width	Δλ		35		nm	IF=20mA
Dominant Wavelength	λd		638		nm	IF=20mA
Forward Voltage Per Segment	VF		1.6			IF=1mA
			1.7	2.4	V	IF=5mA
			1.8			IF=20mA
Reverse Current Per Segment	Ir			100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

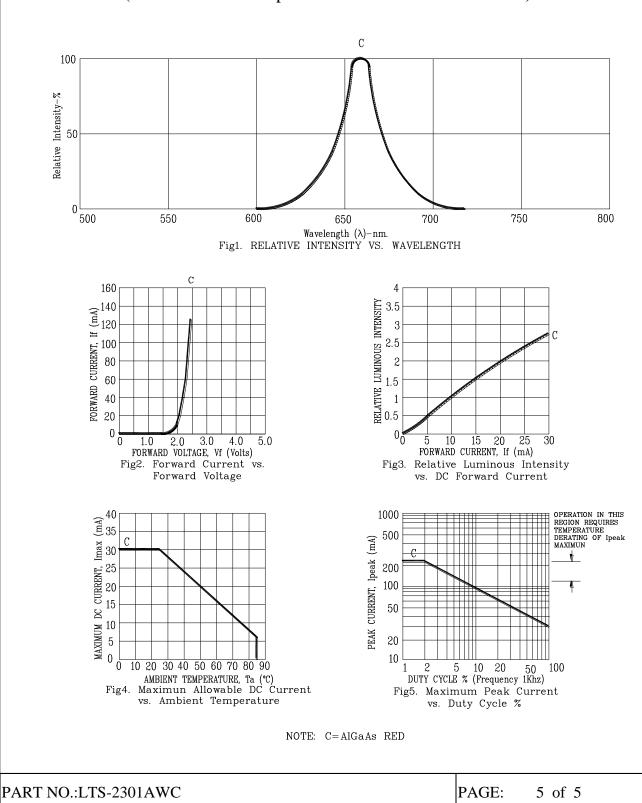
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale DE L'Eclairage) eye-response curve.

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### **TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**



(25°C Ambient Temperature Unless Otherwise Noted)

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