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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Spec No.: DS-30-96-166Effective Date: 02/13/2008

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

LED DISPLAY

LTS-5001AWC DATASHEET

Rev	<u>Description</u>	<u>By</u>
01	ORIGINAL (Refer to contour drawing Revision (-))	KOKO HSU 04/19/2000
(Abo	ove data for PD and Customer tracking	only)
-	NPPR Received and Upload on OPNC	<u>KOKO HSU</u> <u>04/19/2000</u>
A	Change spec pin length from 3.76mm to 5.00 mm	<u>KITTISAK</u> 01/25/2008

SPEC. NO.: **DS-30-96-166** DATE: <u>01/25/2008</u> REV. NO.: PAGE NO.: 0 OF 5

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FEATURES

- *0.56 inch (14.22 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-5001AWC is a 0.56 inch (14.22 mm) digit height single digit low current seven-segment display. This device utilizes AlGaAs red LED chips, which are made from AlGaAs on a non-transparent GaAs substrate, and has a 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.

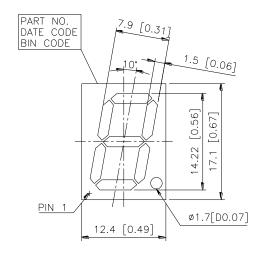
DEVICE

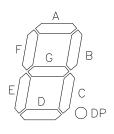
PART NO.	DESCRIPTION			
AlGaAs RED	COMMON ANODE			
LTS-5001AWC	RT. HAND DECIMAL			

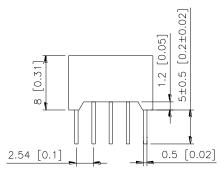
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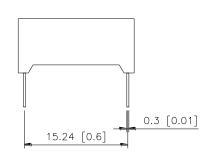
Property of Lite-On Only

PACKAGE DIMENSIONS



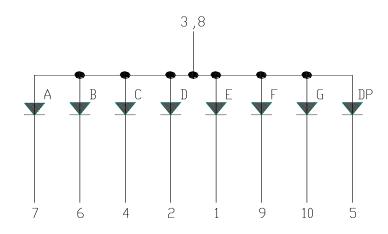






NOTES: All dimensions are in millimeters. Tolerance is \pm 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

NOTE: 1. PIN 3 & 8 ARE INTERNALLY CONNECTED.

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ABSOLUTE MAXIMUM RATING AT Ta=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)	125	mA		
Continuous Forward Current Per Segment	30	mA		
Derating Linear From 25°C Per Segment ☐	0.4	mA/°C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35° C to $+85^{\circ}$ C			
Storage Temperature Range	-35° C to $+85^{\circ}$ 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
	Iv	320	700		μcd	I _F =1mA
Average Luminous Intensity			3750		μcd	I _F =5mA
Peak Emission Wavelength	λр		660		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λd		638		nm	I _F =20mA
	VF		1.6			I _F =1mA
Forward Voltage Per Segment			1.7	2.4	V	I _F =5mA
			1.8			I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I=10mA

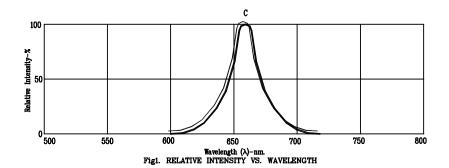
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision International De L'Eclairage) eye-response curve.

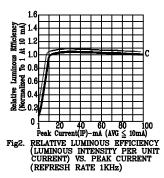
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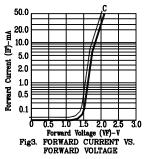
Property of Lite-On Only

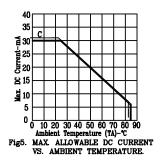
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

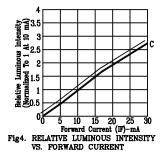
(25°C Ambient Temperature Unless Otherwise Noted)

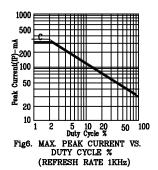












NOTE: C=AlGaAs RED

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