

LED Display
Product Data Sheet
LTS-4910AHR

Spec No. :DS-30-97-311
Effective Date: 06/16/2022
Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LED DISPLAY LTS-4910AHR

LED DISPLAY

LTS-4910AHR

<u>Rev</u>	<u>Description</u>	<u>By</u>	<u>Date</u> <u>DD/MM/YYYY</u>
01	Preliminary SPEC	Ruby Lee	16/10/2000
Above data for PD and Customer tracking only			
-	Preliminary SPEC	Ruby Lee	16/10/2000
A	1.Add AlInGaP dice in description at page 2 2.Update note 2 of Electrical/Optical Characteristics at page 5 3.Correct typical Electrical/Optical Characteristics Curves at page 6	William Lin	31/03/2022

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1. Description

The LTS-4910AHR is a 0.4 inch (10.16 mm) digit height single digit seven-segment display. This device utilizes high efficiency red LED chips, (GaP epi on GaP substrate / AlInGaP on a non-transparent GaAs substrate) and has a red face and red segments.

1.1 Features

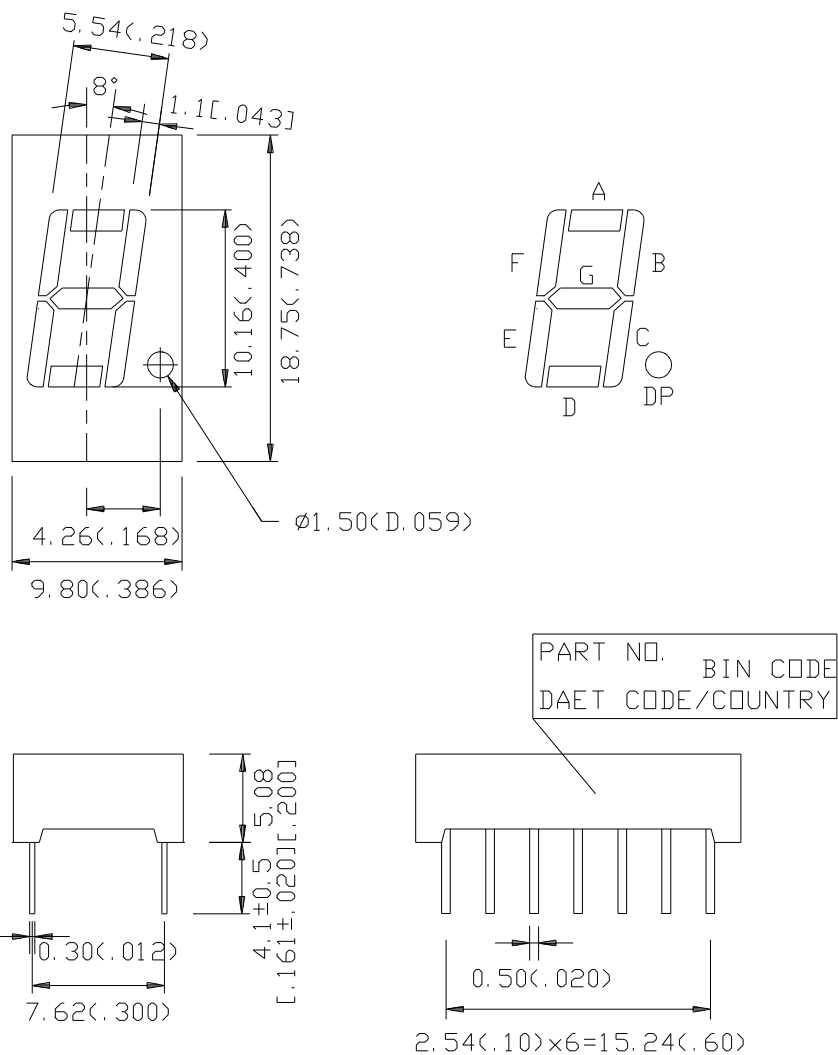
- * 0.4 inch (10.16 mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENT.
- * EXCELLENT CHARACTERS APPEARANCE.
- * HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- * CATEGORIZED FOR LUMINOUS INTENSITY.

1.2 Device

Part No	Description
RED ORANGE	Common Anode Rt. Hand Decimal
LTS-4910AHR	

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2. Package Dimensions

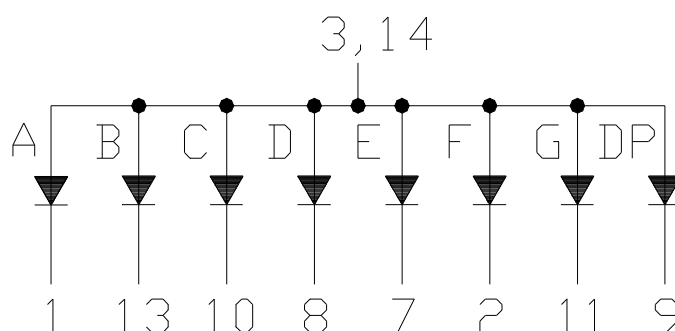


Note:

1. All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01 ") unless otherwise noted.

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3. Internal Circuit Diagram



4. Pin Connection

No.	CONNECTION
1	CATHODE A
2	CATHODE F
3	COMMON ANODE
4	NO PIN
5	NO PIN
6	NO PIN
7	CATHODE E
8	CATHODE D
9	CATHODE DP
10	CATHODE C
11	CATHODE G
12	NO PIN
13	CATHODE B
14	COMMON ANODE

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5. Rating and Characteristics

5.1. 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)	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[1/16inch] below seating plane.		

5.2. Electrical / Optical Characteristics at Ta=25°C

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Test Condition
Average Luminous Intensity	IV	870	2200		μcd	IF = 10mA
Peak Emission Wavelength	λp		635		nm	IF = 20mA
Spectral Line Half-Width	Δλ		40		nm	IF = 20mA
Dominant Wavelength	λd		623		nm	IF = 20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	IF = 20mA
Reverse Current Per Segment	IR			100	μA	VR = 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.
- Reverse voltage is only for IR test, it cannot continue to operate this situation.

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5.3. Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

