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# LED Display Product Data Sheet LTS-4301Y

Spec No.: DS-30-96-260

Effective Date: 02/13/2014

Revision: A

**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4

**LED DISPLAY  
LTS-4301Y**

**LED DISPLAY**

LTS-4301Y

<u>Rev</u>	<u>Description</u>	<u>By</u>	<u>Date</u>
01	Preliminary SPEC	Koko Hsu	05-Apr-2000
<b>Above data for PD and Customer tracking only</b>			
-	Release NPPR	Koko Hsu	05-Apr-2000
A	- Correct Peak Emission Wavelength - Update Operating/Storage Temperature Range from -35°C to +85°C to -35°C to +105°C	Anon B	21-Jan-2013

## 1. Description

The LTS-4301Y is a 0.4 inch (10.0 mm) digit height single digit even-segment display. This device utilizes yellow LED chips, which are made from GaAsP on a transparent GaP substrate, and has a gray face and white segments.

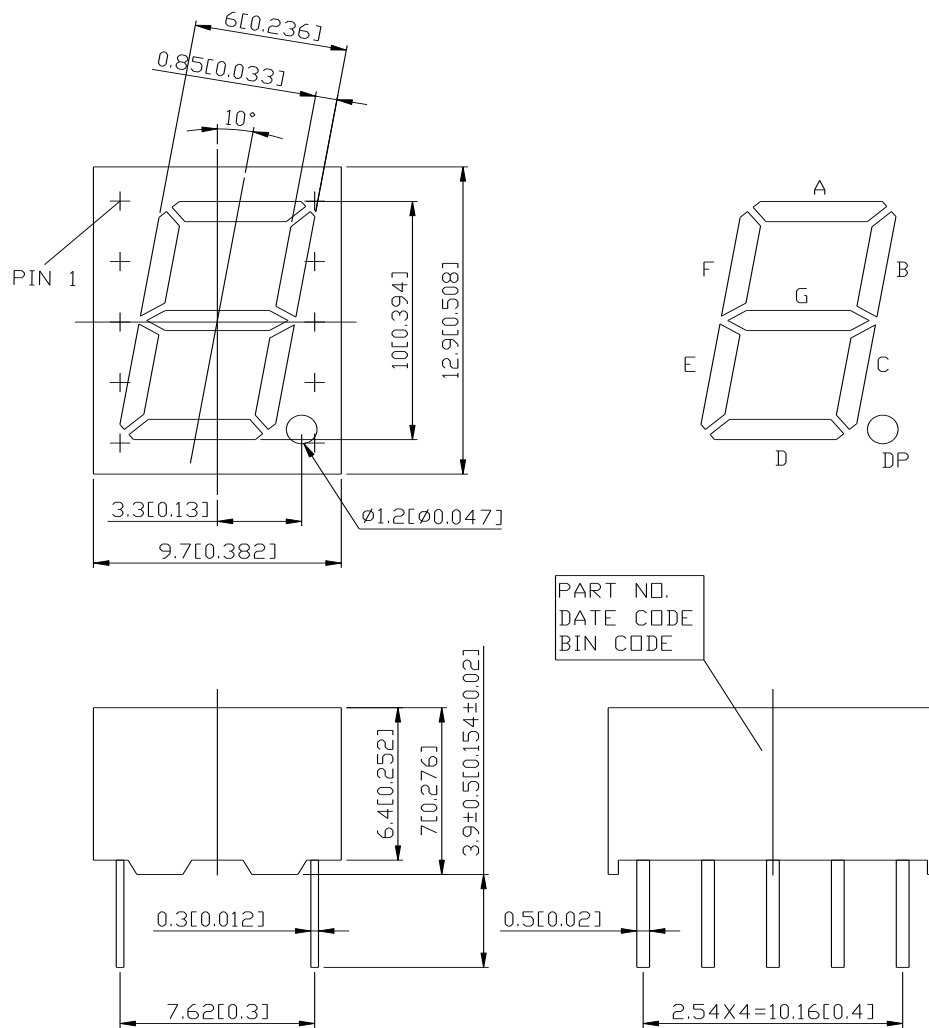
### 1.1 Features

- 0.40 inch (10.0 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)

### 1.2 Device

Part No	Description
YELLOW	Common Anode
LTS-4301Y	Rt. Hand Decimal

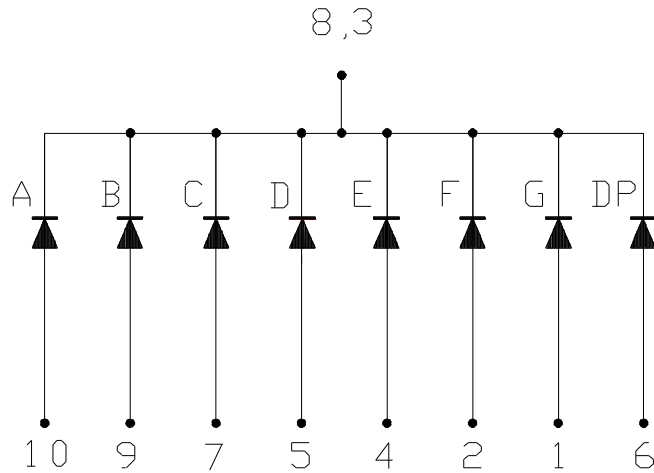
## 2. Package Dimensions



### Notes :

1. All dimensions are in millimeters. Tolerances are  $\pm 0.25\text{mm}$  (0.01") unless otherwise noted.
2. Foreign materials on segment  $\leq 10\text{mils}$
3. Bubble in segment  $\leq 10\text{mils}$
4. Bending  $\leq 1\%$  of reflector length
5. Ink contamination (surface)  $\leq 20\text{mils}$
6. Pin tip's shift tolerance is  $\pm 0.4\text{ mm}$ .

### 3. Internal Circuit Diagram



### 4. Pin Connection

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

## LED DISPLAY LTS-4301Y

### 5. Rating and Characteristics

#### 5.1. Absolute Maximum Rating at Ta=25°C

Parameter	Maximum Rating	Unit
Power Dissipation Per Segment	60	mW
Peak Forward Current Per Segment ( 1/10 Duty Cycle, 0.1ms Pulse Width )	80	mA
Continuous Forward Current Per Segment	20	mA
Derating Linear From 25°C Per Segment	0.22	mA/°C
Operating Temperature Range	-35°C to +105°C	
Storage Temperature Range	-35°C to +105°C	
Solder Conditions: 1/16 inch below seating plane for 3 seconds at 260°C., or temperature of unit (during assembly) not over max. temperature rating above		

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

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Test Condition
Average Luminous Intensity	IV	800	2200		ucd	IF=10mA
Peak Emission Wavelength	$\lambda_p$		585		nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$		35		nm	IF=20mA
Dominant Wavelength	$\lambda_d$		588		nm	IF=20mA
Forward Voltage Per Chip	VF		2.10	2.60	V	IF=20mA
Reverse Current Per Segment <sup>(2)</sup>	IR			100	$\mu$ A	VR=5V
Luminous Intensity Matching Ratio (Similar Light Area)	IV-m			2:1		IF=10mA

#### Notes :

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) eye-response curve
- Reverse voltage is only for IR test. It cannot continue to operate at this situation
- Cross talk specification  $\leq 1.0\%$

**LED DISPLAY  
LTS-4301Y**

**6. Typical Electrical / Optical Characteristics Curves**

(25°C Ambient Temperature Unless Otherwise Noted)

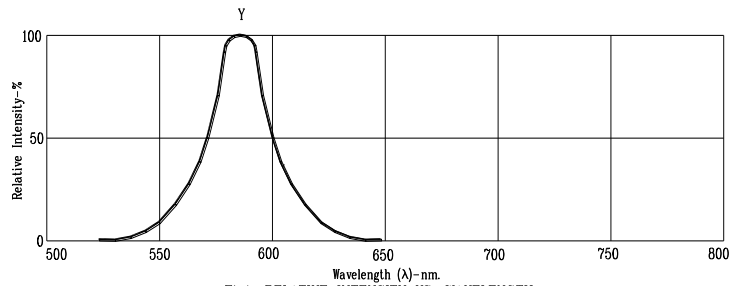


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

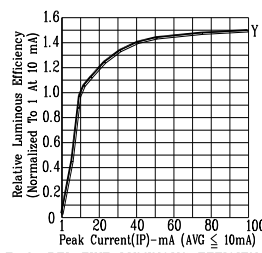


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)

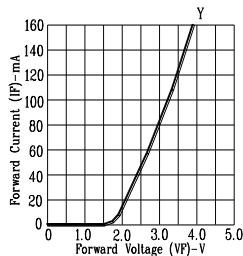


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

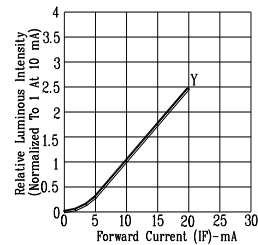


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

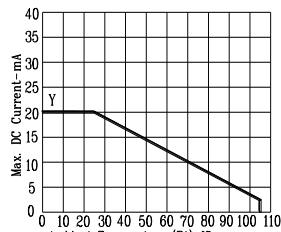


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

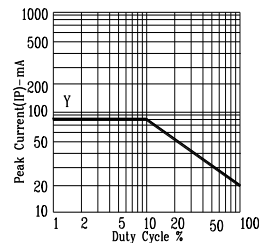


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE : Y= YELLOW