



# LED Display Product Data Sheet LTS-3367KD

Spec No.: DS30-2011-0135

Effective Date: 08/05/2011

Revision: -

**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4



**LTS-3367KD**  
**DATA SHEET**

<b><u>Item</u></b>	<b><u>Description</u></b>	<b><u>By</u></b>	<b><u>DATE</u></b>
<b>1</b>	<b>New Spec.</b>	<b>Reo Lin</b>	<b>2011/07/27</b>

**FEATURES**

- \* 0.31 inch (8 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).**

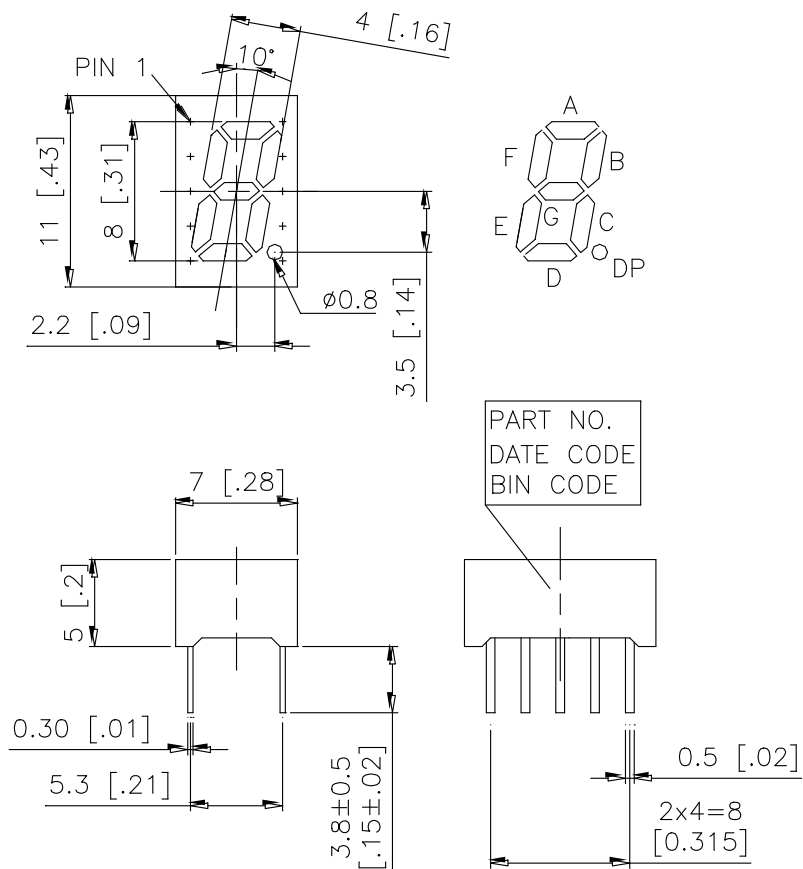
**DESCRIPTION**

The LTS-3367KD is a 0.31 inch (8.0 mm) digit height single-digit display. This device uses AS-AlInGaP HYPER RED LED chips (AlInGaP epi on GaAs substrate). The display has black face and white segments.

**DEVICE**

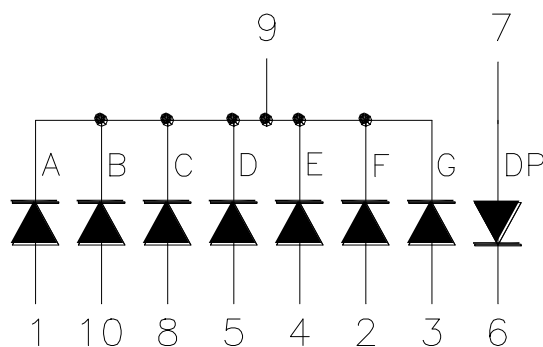
<b>PART NO.</b>	<b>DESCRIPTION</b>
AlInGaP HYPER RED	Common Cathode Rt. Hand Decimal
LTS-3367KD	

## PACKAGE DIMENSIONS



- NOTES: 1. All dimensions are in millimeters. Tolerances are  $\pm 0.25\text{mm}$  ( $0.01''$ ) unless otherwise noted.  
 2. Pin tip's shift tolerance is  $\pm 0.4$  mm.

## INTERNAL CIRCUIT DIAGRAM



**PIN CONNECTION**

<b>No.</b>	<b>CONNECTION</b>
1	Anode A
2	Anode F
3	Anode G
4	Anode E
5	Anode D
6	Cathode DP
7	Anode DP
8	Anode C
9	Common Cathode
10	Anode B

**ABSOLUTE MAXIMUM RATING**

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment ( Frequency 1Khz, 15% duty cycle)	90	mA
Continuous Forward Current Per Segment	25	mA
Forward Current Derating from 25 <sup>0</sup> C	0.28	mA/ <sup>0</sup> C
Operating Temperature Range	-35 <sup>0</sup> C to +105 <sup>0</sup> C	
Storage Temperature Range	-35 <sup>0</sup> C to +105 <sup>0</sup> C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 <sup>0</sup> C		

**ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25<sup>0</sup>C**

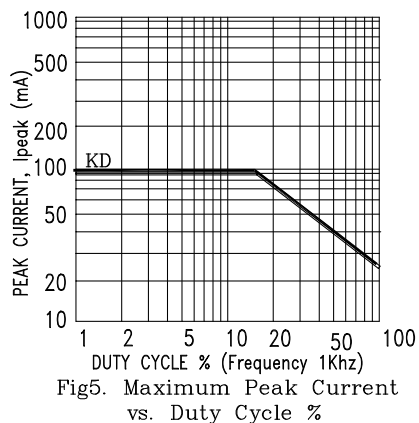
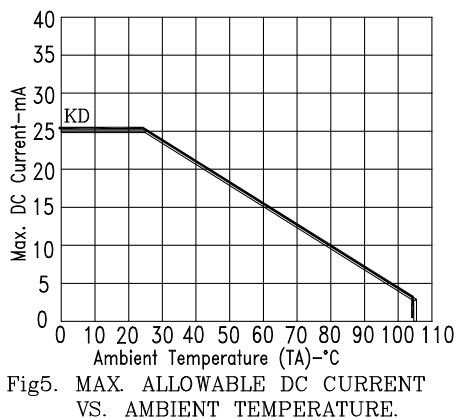
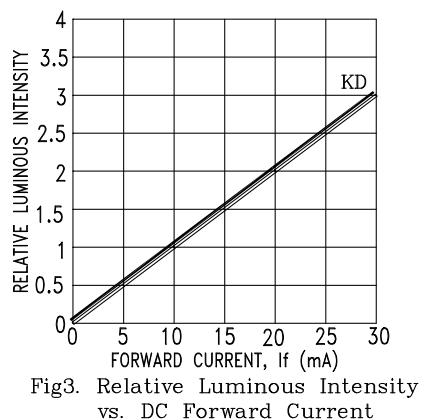
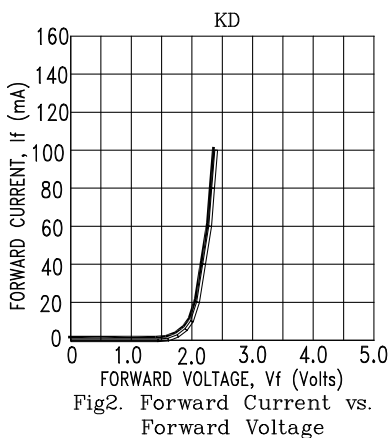
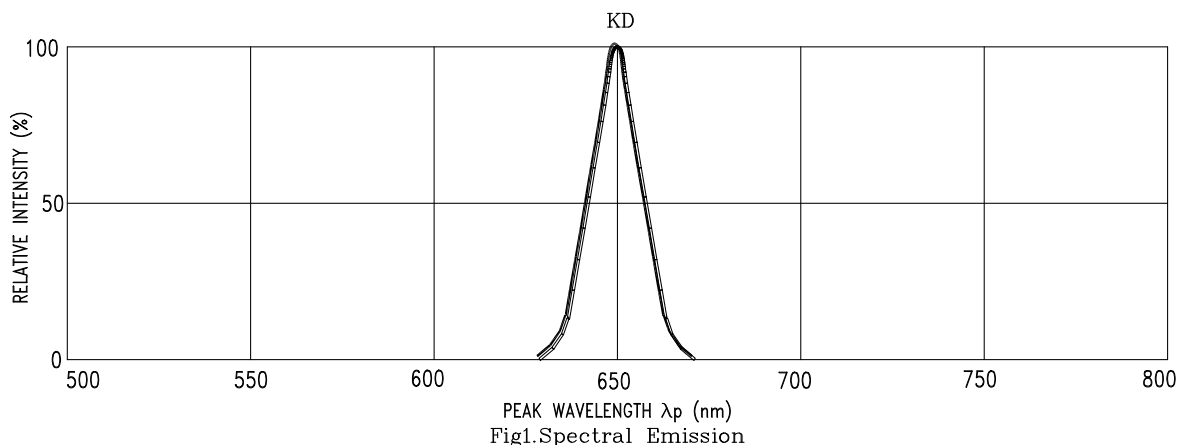
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I <sub>v</sub>	200	692		μcd	I <sub>F</sub> = 1mA
Peak Emission Wavelength	λ <sub>p</sub>		650		nm	I <sub>F</sub> = 20mA
Spectral Line Half-Width	Δλ		20		nm	I <sub>F</sub> = 20mA
Dominant Wavelength	λ <sub>d</sub>		639		nm	I <sub>F</sub> = 20mA
Forward Voltage Per Segment	V <sub>F</sub>		2.1	2.6	V	I <sub>F</sub> = 20mA
Reverse Current Per Segment <sup>(2)</sup>	I <sub>R</sub>			100	μA	V <sub>R</sub> = 5V
Luminous Intensity Matching Ratio	I <sub>v-m</sub>			2 : 1		I <sub>F</sub> = 1mA

Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE ( Commission Internationale De L'Eclairiage ) eye-response curve.
2. Reverse voltage is only for IR test, it can not continue to operate this situation.

## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : KD=AlInGaP HYPER RED