



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

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

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).**

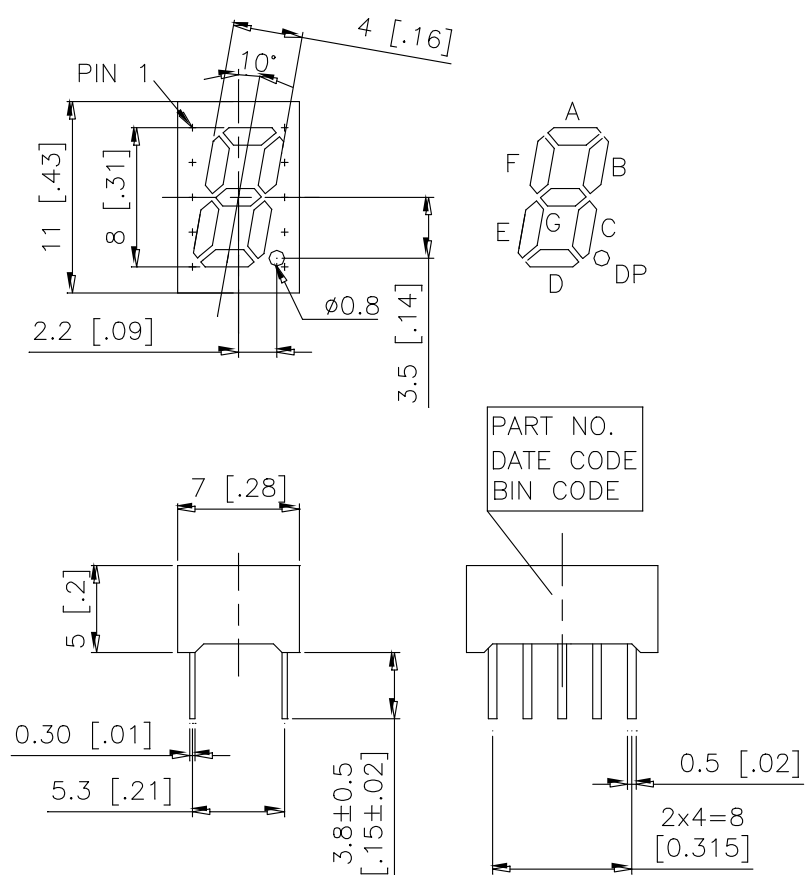
DESCRIPTION

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

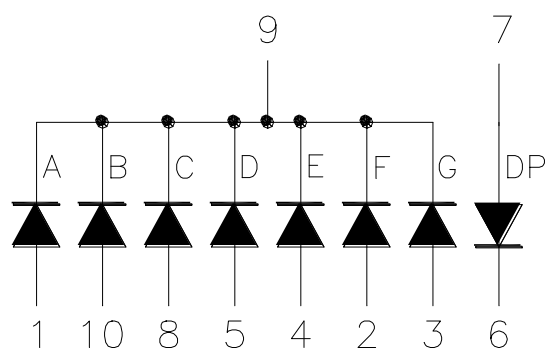
PART NO.	DESCRIPTION
AlInGaP HYPER RED	Common Cathode Rt. Hand Decimal
LTS-3367KD	

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 ± 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
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 ⁰ C	0.28	mA/ ⁰ C
Operating Temperature Range	-35 ⁰ C to +105 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +105 ⁰ C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 ⁰ C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25⁰C

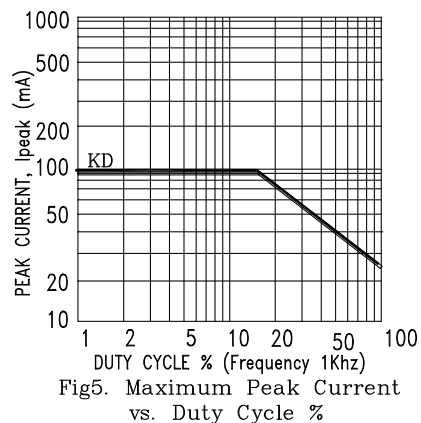
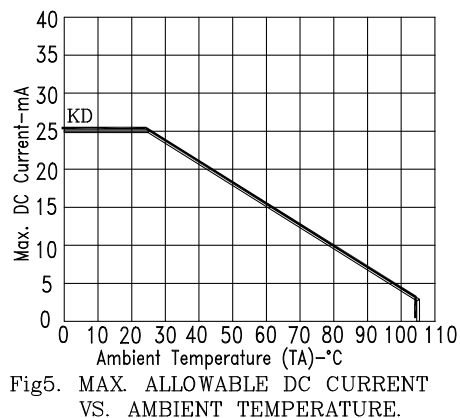
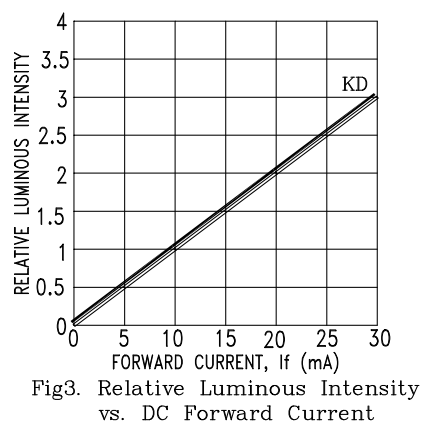
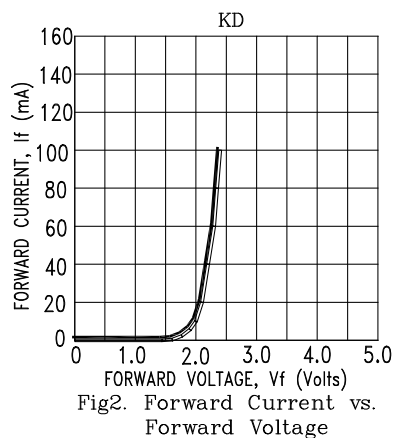
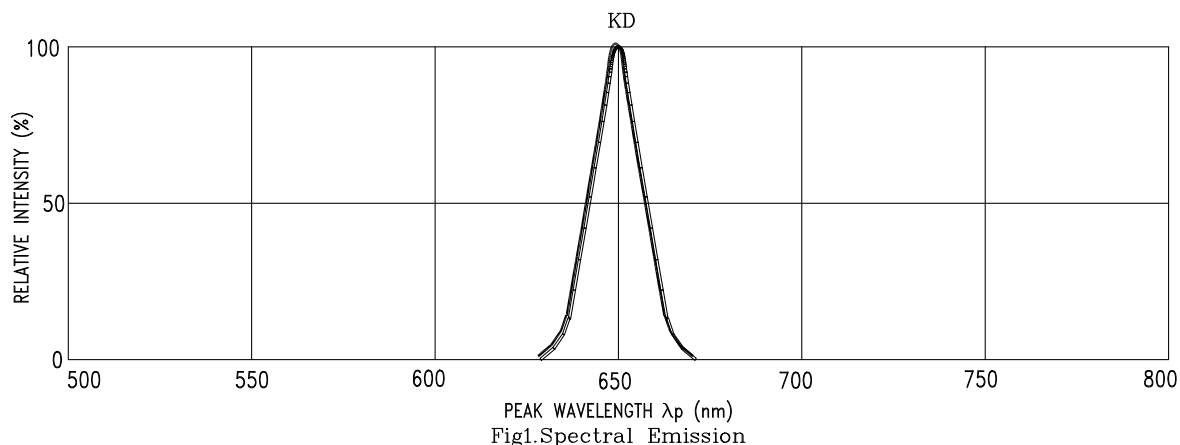
PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I _v	200	692		μcd	I _F = 1mA
Peak Emission Wavelength	λ _p		650		nm	I _F = 20mA
Spectral Line Half-Width	Δλ		20		nm	I _F = 20mA
Dominant Wavelength	λ _d		639		nm	I _F = 20mA
Forward Voltage Per Segment	V _F		2.1	2.6	V	I _F = 20mA
Reverse Current Per Segment ⁽²⁾	I _R			100	μA	V _R = 5V
Luminous Intensity Matching Ratio	I _v -m			2 : 1		I _F = 1mA

Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) 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