

**LED DISPLAY****LTP-3862JD**  
**DATA SHEET**

<b><u>ITEM</u></b>	<b><u>Description</u></b>	<b><u>By</u></b>	<b><u>DATE</u></b>
01	Add comments in drawing	YUNYANG	10/Aug /2009

SPEC. NO.: \_\_\_\_\_

DATE : 10/Aug/2009REV. NO. : 01PAGE NO.: 1 of 6

**FEATURES**

- \* 0.3 inch (7.62 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**

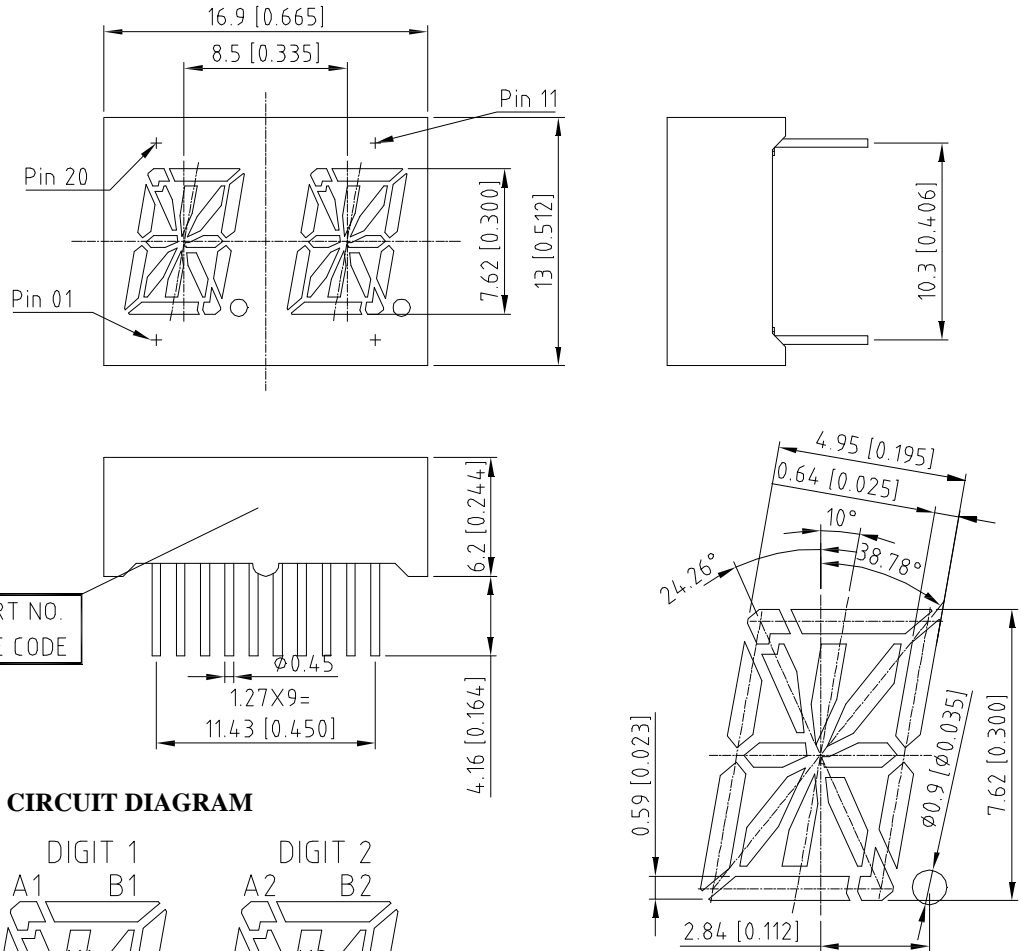
**DESCRIPTION**

The LTP-3862JD is a 0.3 inch (7.62 mm) digit height dual digit 16-segment alphanumeric display. This device uses AlInGaP Hyper Red LED chips (AlInGaP epi on GaAs substrate). The display has black face and white segments.

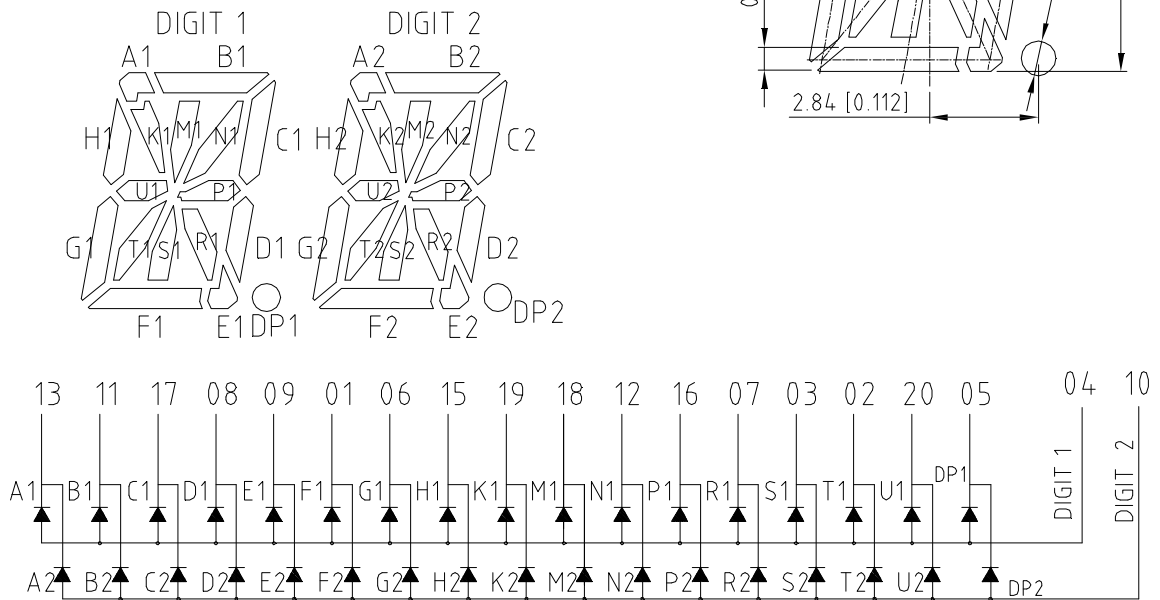
**DEVICE**

<b>PART NO.</b>	<b>DESCRIPTION</b>
AlInGaP Hyper Red	Multiplex Common Anode
LTP-3862JD	Rt. Hand Decimal

### PACKAGE DIMENSIONS



### INTERNAL CIRCUIT DIAGRAM



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].  
TOLERANCE:  $\pm 0.25\text{mm}$  [ $\pm 0.01"$ ] UNLESS OTHERWISE NOTED.
  2. THIS DEVICE HAS BLACK FACE AND WHITE SEGMENTS.
  3. THIS DEVICE HAS A PATTERN FILM IS ADDED ON IT.

**PIN CONNECTION**

<b>No.</b>	<b>CONNECTION</b>
1	CATHODE F
2	CATHODE T
3	CATHODE S
4	COMMON ANODE (Digit 1)
5	CATHODE DP
6	CATHODE G
7	CATHODE R
8	CATHODE D
9	CATHODE E
10	COMMON ANODE (Digit 2)
11	CATHODE B
12	CATHODE N
13	CATHODE A
14	NO CONNECTION
15	CATHODE H
16	CATHODE P
17	CATHODE C
18	CATHODE M
19	CATHODE K
20	CATHODE U

**ABSOLUTE MAXIMUM RATING**

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle )	90	mA
Continuous Forward Current Per Segment	25	mA
Forward Current Derating from 25 <sup>0</sup> C	0.33	mA/ <sup>0</sup> C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 <sup>0</sup> C to +85 <sup>0</sup> C	
Storage Temperature Range	-35 <sup>0</sup> C to +85 <sup>0</sup> C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 <sup>0</sup> C		

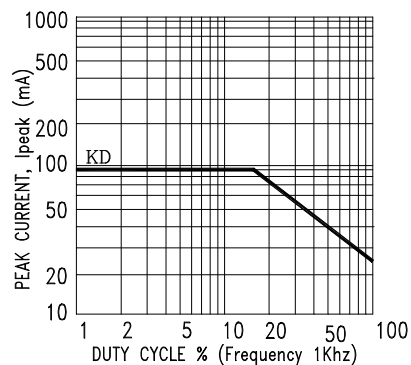
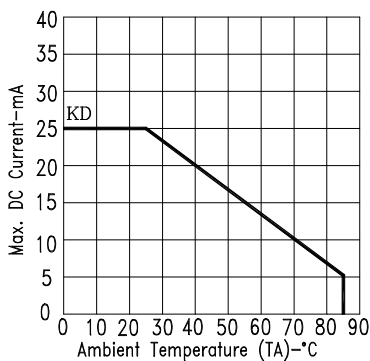
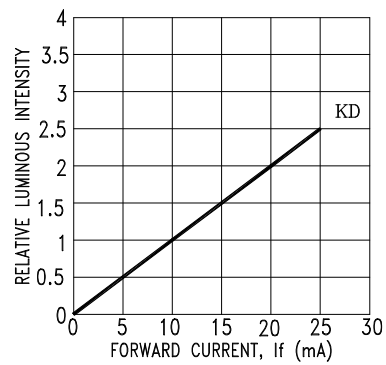
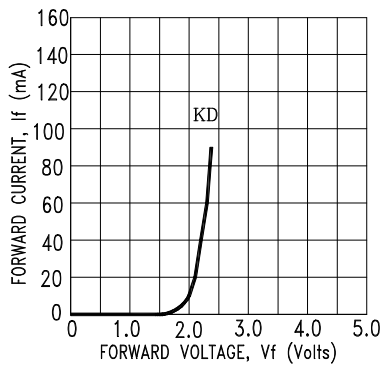
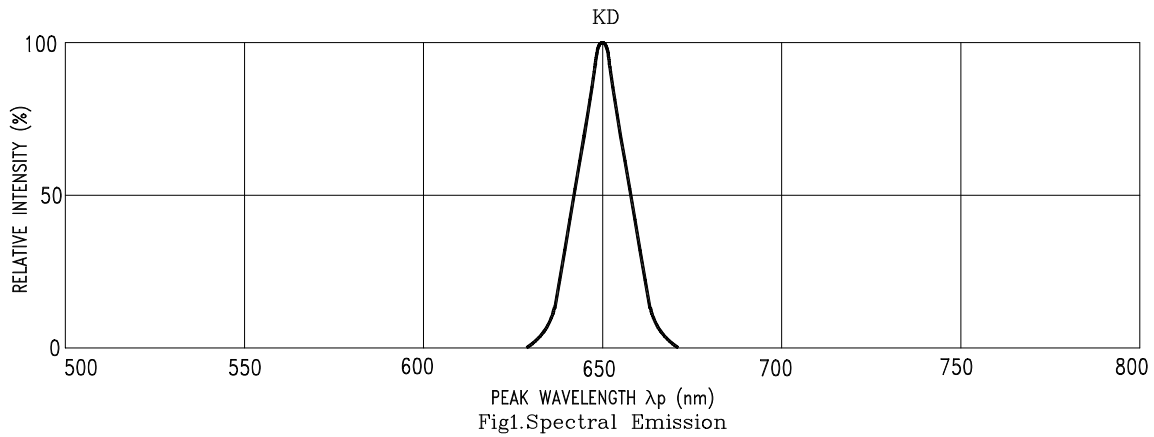
**ELECTRICAL / OPTICAL CHARACTERISTICS AT T<sub>A</sub>=25<sup>0</sup>C**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I <sub>v</sub>	320	900		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	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	I <sub>v</sub> -m			2:1		I <sub>F</sub> =1mA

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

**TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : KD=AlInGaP HYPER RED

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