# Property of Lite-On Only

### **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

### DESCRIPTION

The LTP-3862P is a 0.3 inch (7.62 mm) digit height dual digit 17-segment alphanumeric display. This device uses bright red LED chips (GaP epi on a GaP substrate). The display has black face and white segments.

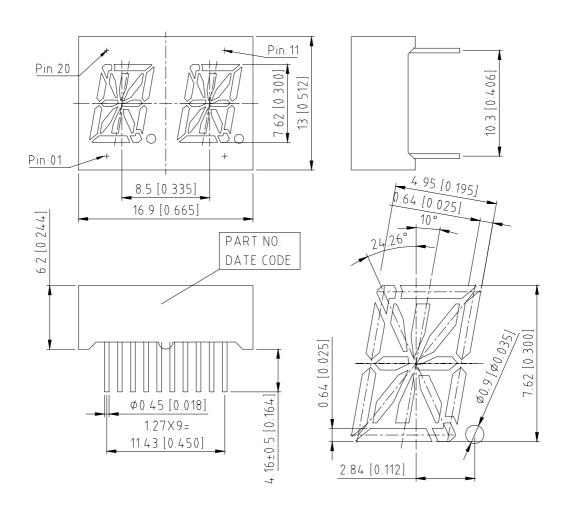
### **DEVICE**

PART NO.	DESCRIPTION
Bright Red	Multiplex Common Anode
LTP-3862P	Rt. Hand Decimal

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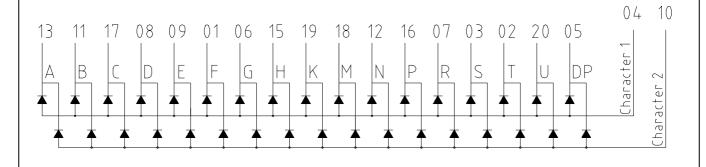
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## **PACKAGE DIMENSIONS**



NOTES: All dimensions are in millimeters. Tolerances are  $\pm$  0.25 mm (0.01") unless otherwise noted.

## INTERNAL CIRCUIT DIAGRAM



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## **PIN CONNECTION**

No.	CONNECTION
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

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### ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation Per Segment	40	mW		
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	60*	mA		
Continuous Forward Current Per Segment	15	mA		
Forward Current Derating from 25°C	0.2	mA/ <sup>0</sup> C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35°C to +85°C			
Storage Temperature Range	$-35^{0}$ C to $+85^{0}$ C			
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C				

<sup>\*</sup> see figure 5 to establish pulsed condition

# ELECTRICAL / OPTICAL CHARACTERISTICS AT T<sub>A</sub>=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	Iv	320	750		μcd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λρ		697		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		90		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		657		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	$\mathbf{V}_{\mathrm{F}}$		2.0	2.6	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	Ir			100	μA	$V_R=5V$
Luminous Intensity Matching Ratio	Iv-m			2:1		I <sub>F</sub> =10mA

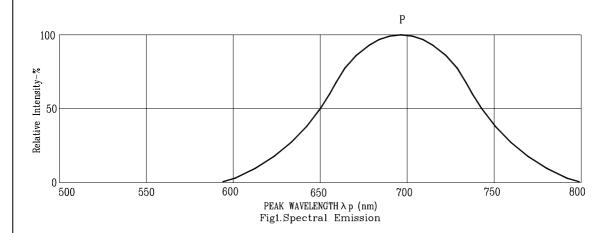
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

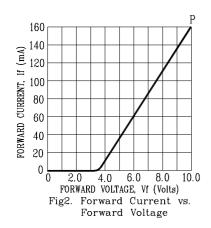
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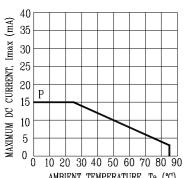
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### TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

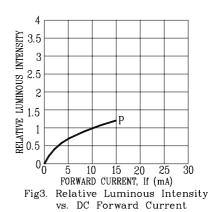
(25°C Ambient Temperature Unless Otherwise Noted)

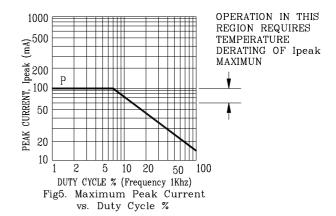






AMBIENT TEMPERATURE, Ta (°C) Fig4. Maximun Allowable DC Current vs. Ambient Temperature





NOTE: P=BRIGHT RED

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