# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Spec No.: DS-30-96-084 Effective Date: 05/23/2000 Revision: -



BNS-OD-FC001/A4

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## LITEON LITE-ON ELECTRONICS, INC. Property of Lite-On Only

#### **FEATURES**

\* 0.54 INCH (13.8 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.

#### DESCRIPTION

The LTP-3784E is a 0.54 inch (13.8 mm) digit height dual digit 14-segment alphanumeric display. This device utilizes red orange LED chips, which are made from GaAsP on a transparent GaP substrate, and has a gray face and white segments.

#### DEVICE

PART NO.	DESCRIPTION
RED ORANGE	Dual Common Cathode
LTP-3784E	Rt. Hand Decimal

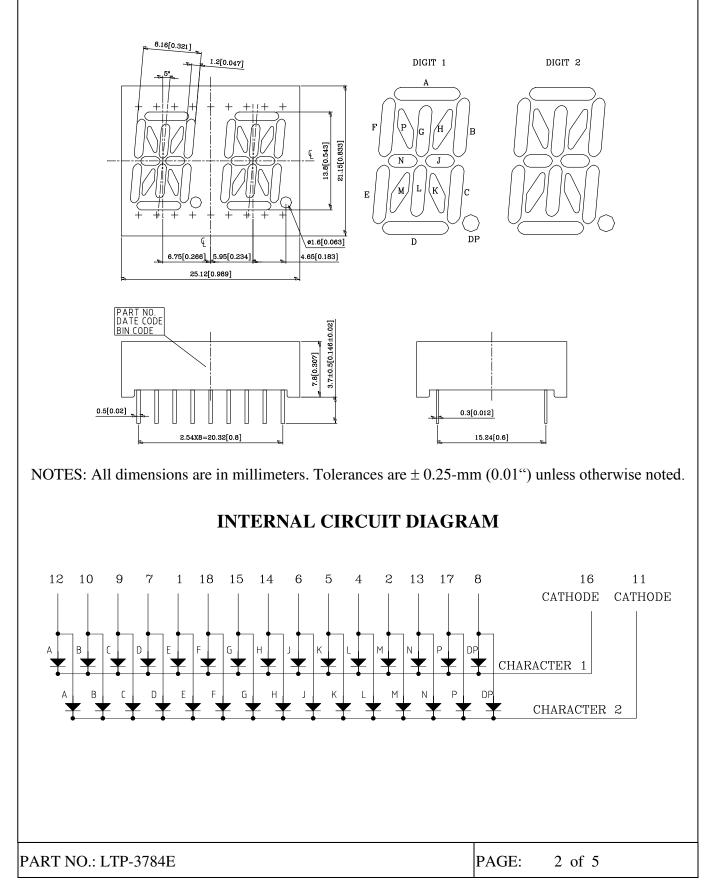
PART NO	) : LTP	-3784E
1 / 11/1 1 1/	<i>J</i> ., <b>L</b> 11	3704L

PAGE: 1 of 5

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BNS-OD-C131/A4



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#### **PIN CONNECTION**

No.	CONNECTION
1	ANODE E
2	ANODE M
3	NO CONNECTION
4	ANODE L
5	ANODE K
6	ANODE J
7	ANODE D
8	ANODE D.P.
9	ANODE C
10	ANODE B
11	COMMON CATHODE, CHARACTER 2
12	ANODE A
13	ANODE N
14	ANODE H
15	ANODE G
16	COMMON CATHODE, CHARACTER 1
17	ANODE P
18	ANODE F

PART NO.: LTP-3784E

## LITEON LITE-ON ELECTRONICS, INC. Property of Lite-On Only

### ABSOLUTE MAXIMUM RATING AT T<sub>A</sub>=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation Per Segment	75	mW		
Peak Forward Current Per Segment	100	A		
(1/10 Duty Cycle, 1.0ms Pulse Width)	100	mA		
Continuous Forward Current Per Segment	25	mA		
Derating Linear From 25 <sup>o</sup> C Per Segment	0.33	mA/ <sup>0</sup> C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C			
Storage Temperature Range	perature Range $-35^{\circ}C$ to $+85^{\circ}C$			
Solder Temperature: max $260^{\circ}$ C for max 3sec at 1.6mm[1/16inch] below seating plane.				

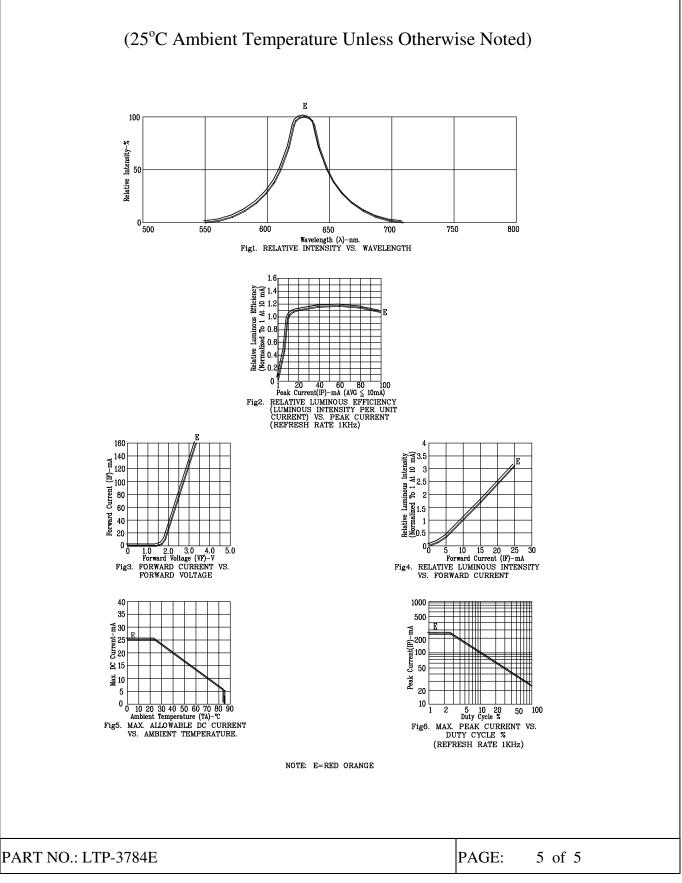
#### ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}C$

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2300		μcd	IF=10mA
Peak Emission Wavelength	λp		630		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		621		nm	IF=20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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.

## LITEON LITE-ON ELECTRONICS, INC. Property of Lite-On Only

#### **TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**



BNS-OD-C131/A4