

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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LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- *0.4 INCH (10.16 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 LTS-4840AY is a 0.4 inch (10.16 mm) digit height LED display. This device utilizes yellow LED chips, which are made from GaAsP on GaP substrate, and has a gray face and white segments.

DEVICE

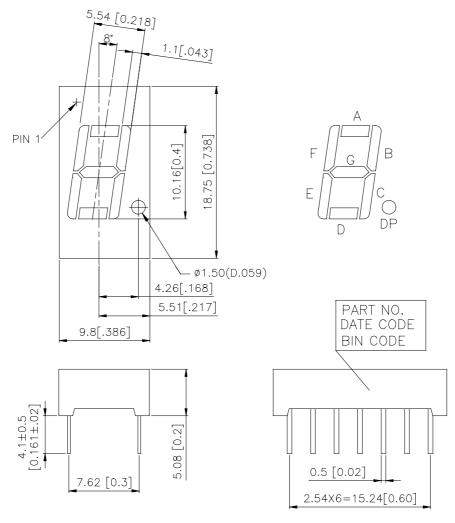
PART NO.	DESCRIPTION			
YELLOW	Common Cathode,			
LTS-4840AY	Rt. Hand Decimal			

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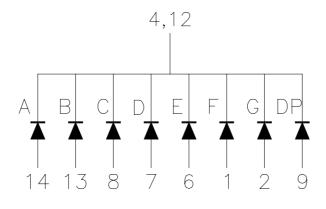
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PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerance is \pm 0.25-mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION
1	ANODE F
2	ANODE G
3	NO PIN
4	COMMON CATHODE
5	NO PIN
6	ANODE E
7	ANODE D
8	ANODE C
9	ANODE D.P.
10	NO PIN
11	NO PIN
12	COMMON CATHODE
13	ANODE B
14	ANODE A

NOTE: PIN 4 & 12 ARE INTERNALLY CONNECTED.

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT				
Power Dissipation Per Segment	60	mW				
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA				
Continuous Forward Current Per Segment	20	mA				
Derating Linear From 25 ^o C Per Segment	0.27	mA/ ⁰ C				
Reverse Voltage Per Segment	5	V				
Operating Temperature Range	-35°C to +85°C					
Storage Temperature Range	-35° C to $+85^{\circ}$ C					
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C						

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

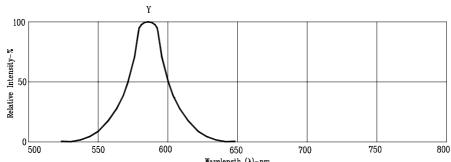
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	870	2200		μcd	I _F =10mA
Peak Emission Wavelength	λр		585		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λd		588		nm	I _F =20mA
Forward Voltage Per Segment or D.P.	VF		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment or D.P.	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commision internationale DE L'clariage) eye-response curve.

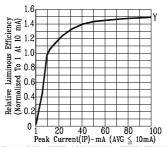
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

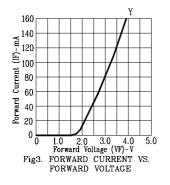
(25°C Ambient Temperature Unless Otherwise Noted)

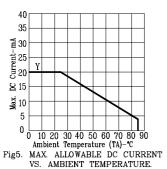


 $\label{eq:wavelength} \mbox{Wavelength } (\lambda)-nm.$ Fig1. RELATIVE INTENSITY VS. WAVELENGTH



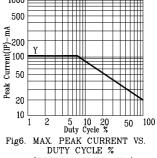
RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)





·**a**3.5 Relative Luminous Intensity
(Normalized To 1 At 10 mA
C T T C C C C C 5 10 15 20 25 Forward Current (IF)-mA

Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT 1000



(REFRESH RATE 1KHz)

NOTE : Y=YELLOW

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