Property of Lite-On Only

FEATURES

- *0.4 inch (10 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-4301JF is a 0.4 inch (10 mm) digit height single digit seven-segment display. This device utilizes AlInGaP yellow orange LED chips, which are made from AlInGaP on a nontransparent GaAs substrate, and has a gray face and white segments.

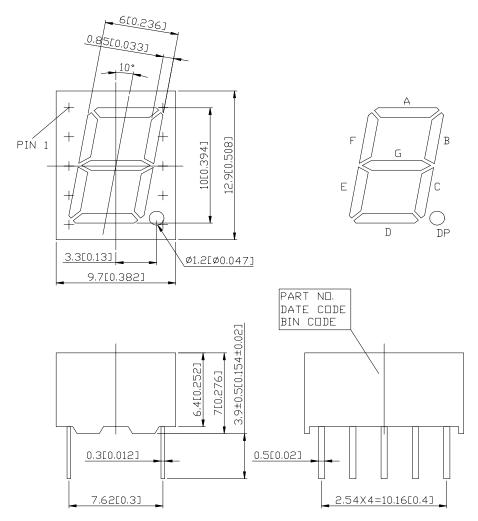
DEVICE

PART NO.	DESCRIPTION
AlInGaP Yellow Orange	Common Cathode
LTS-4301JF	Rt. Hand Decimal

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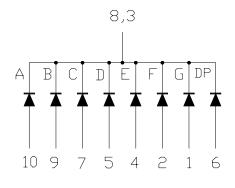
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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Property of Lite-On Only

PIN CONNECTION

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

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

SYMBOL MIN. TYP. MAX. UNIT TEST CONDITION **PARAMETER** 200 650 Average Luminous Intensity Ιv μcd $I_F=1mA$ Peak Emission Wavelength 611 I_F=20mA λp nm 17 Spectral Line Half-Width $\Delta\lambda$ I_F=20mA nm 605 Dominant Wavelength λd $I_F=20mA$ nm Forward Voltage Per Segment V_{F} 2.05 2.6 V $I_F=20mA$

100

2:1

 μA

 $V_R=5V$

I_F=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.

 I_R

Iv-m

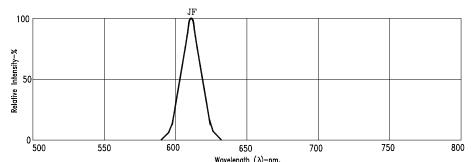
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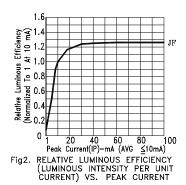
Reverse Current Per Segment

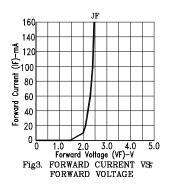
Luminous Intensity Matching Ratio

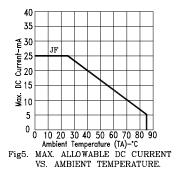
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)









W 3.5

Is useful to 2.5

Is us

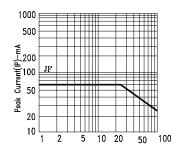


Fig6. MAX. PEAK CURRENT VS.
DUTY CYCLE %
(REFRESH RATE 1KHz)

NOTE : JF=AlInGaP YELLOW ORANGE

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