



Revision: -



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

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

FEATURES

* 0.5 inch (12.7 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-587JD is a 0.5 inch (12.7 mm) height 16-segment single digit alphanumeric display. This device utilizes AlInGaP hyper red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a black face and white segments.

DEVICE

PART NO.	DESCRIPTION			
AlInGaP HYPER RED	Common Anode			
LTP-587JD	Rt. Hand decimal			

PART NO.: LTP-587JD

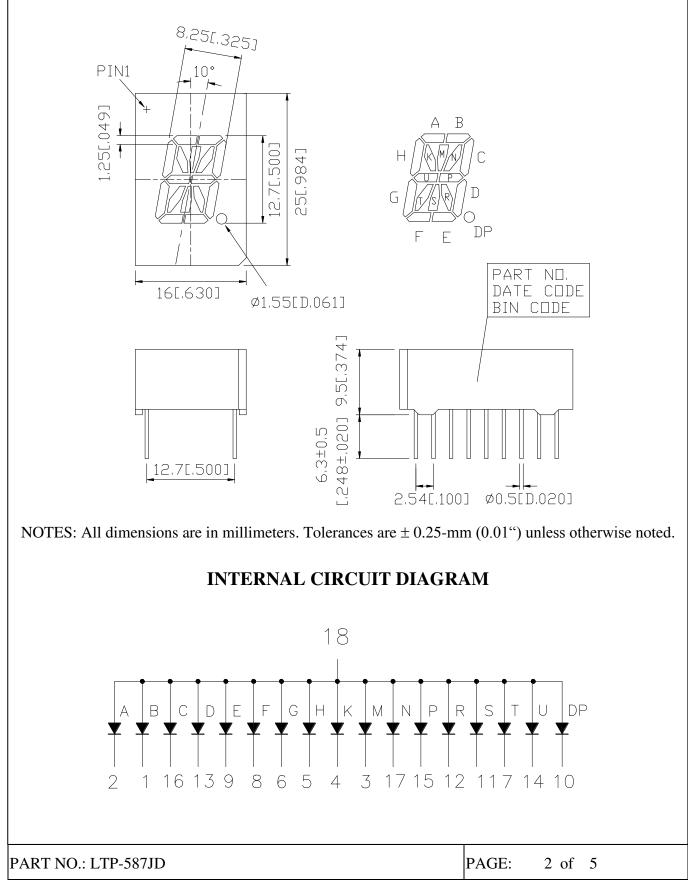
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PACKAGE DIMENSIONS



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PIN CONNECTION

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

PART NO.: LTP-587JD

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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)	90	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 ⁰ C Per Segment	0.33	mA/ ⁰ C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35° C to $+85^{\circ}$ C				
Storage Temperature Range	-35° C to $+85^{\circ}$ C				
Solder Temperature: max 260° C for max 3sec at 1.6mm below seating plane.					

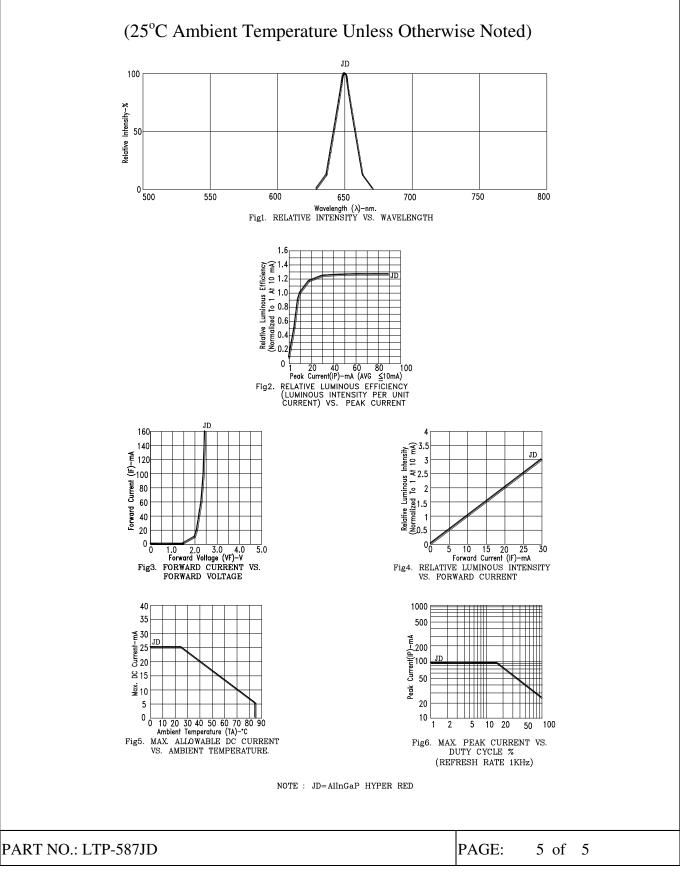
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	700		μcd	IF=1mA
Peak Emission Wavelength	λp		650		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		639		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=1mA

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

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



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