



Spec No.: DS30-2001-030 Effective Date: 09/15/2001 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

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#### **FEATURES**

\* 0.39-INCH (10.0-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

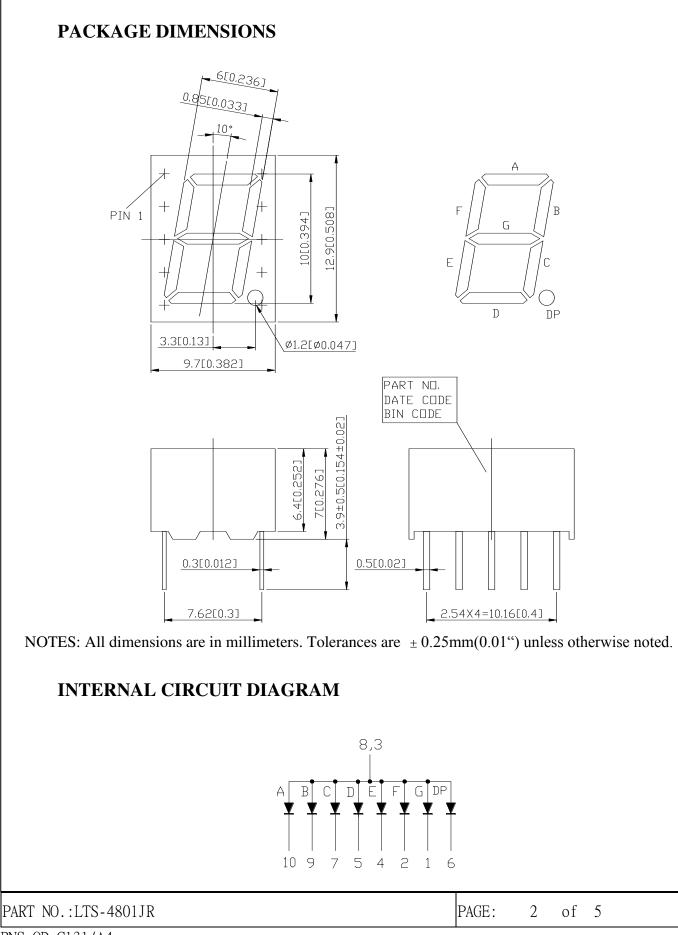
The LTS-4801JR is a 0.39-inch (10.0-mm) height single digit seven-segment display. This device utilizes AlInGaP super red LED chips, which are made from AlInGaP on GaAs substrate, and has a gray face and white segments.

#### DEVICE

PART NO.	DESCRIPTION		
AlInGaP Super RED	Common Anode		
LTS-4801JR	Rt. Hand Decimal		

PART NO.:LTS-4801JR

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#### **PIN CONNECTION**

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

NOTE: PIN 3 & 8 ARE INTERNALLY CONNECTED.

PART NO.:LTS-4801JR

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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	90	mA			
(1/10 Duty Cycle, 0.1ms Pulse Width )					
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25°C Per Segment	0.33	mA/ºC			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

#### ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

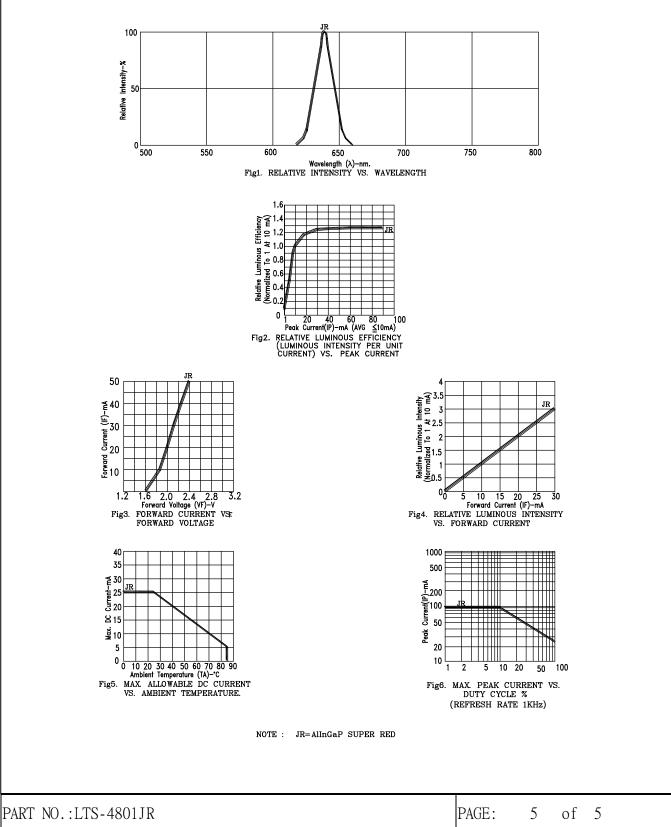
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	<b>TEST CONDITION</b>
Average Luminous Intensity	Iv	200	520		μcd	I <sub>F</sub> =1mA
Peak Emission Wavelength	λp		639		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		20		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		631		nm	IF=20mA
Forward Voltage. Per Segment	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		I <sub>F</sub> =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**

(25°C Ambient Temperature Unless Otherwise Noted )



BNS-OD-C131/A4