



Spec No.: DS30-2001-218 Effective Date: 10/29/2001 Revision: -



BNS-OD-FC001/A4

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#### **FEATURES**

\*0.28 inch (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 LTS-2301AJD is a 0.28 inch (7 mm) digit height single digit seven-segment display. This device utilizes AlInGaP hyper red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

#### DEVICE

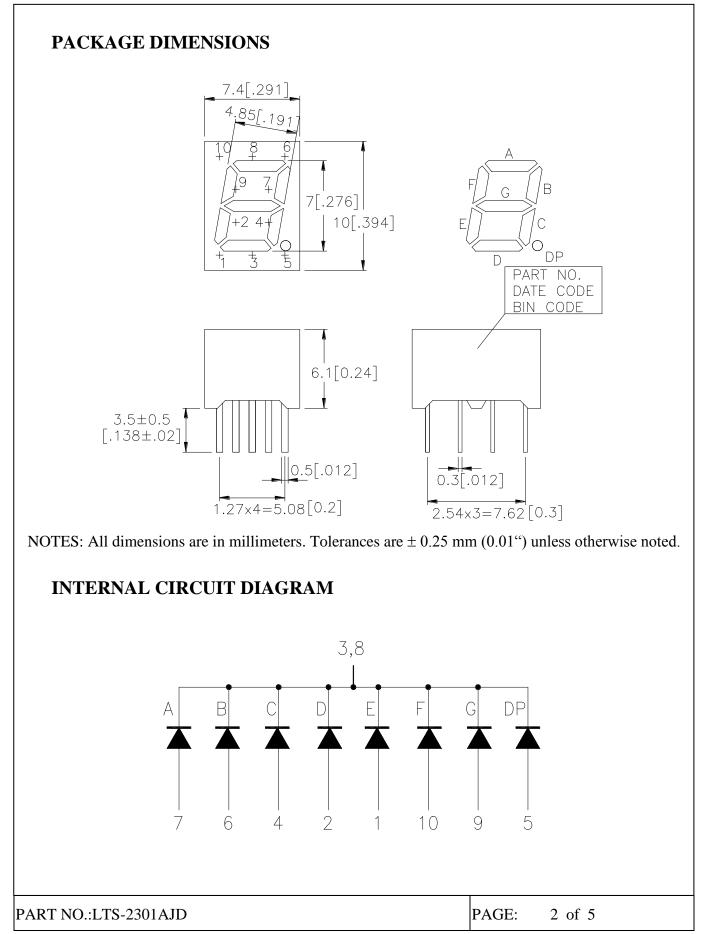
PART NO.	DESCRIPTION
AlInGaP HYPER RED	Common Cathode
LTS-2301AJD	Rt. Hand Decimal

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#### **PIN CONNECTION**

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

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### ABSOLUTE MAXIMUM RATING AT T<sub>A</sub>=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°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C	
Solder Temperature: max 260°C for	r max 3sec at 1.6mm below seating	plane.

### **ELECTRICAL / OPTICAL CHARACTERISTICS AT T<sub>A</sub>=25°C**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	600		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 <sub>R</sub> =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'Eclairage) eye-response curve.

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

