



Spec No.: DS30-2000-150 Effective Date: 08/15/2000 Revision: -



BNS-OD-FC001/A4

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FEATURES

* 0.56-INCH (14.22-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-5001AJR is a 0.56inch (14.22mm) height digit display. The device utilizes AlInGaP super red LED chips which are made from AlInGaP on a non-transparent GaAs substrate, and have light gray face and white segments.

This low current seven-segment display is designed to perform under low power consumption. It is tested and selected for it's excellent low current characteristics. It can be driven in low current condition and the segments are matched. This driving current as low as 1mA per segment is applicable.

DEVICE

PART NO.	DESCRIPTION		
AlInGaP SUPER RED	Common Anode		
LTS-5001AJR	Rt. Hand Decimal		

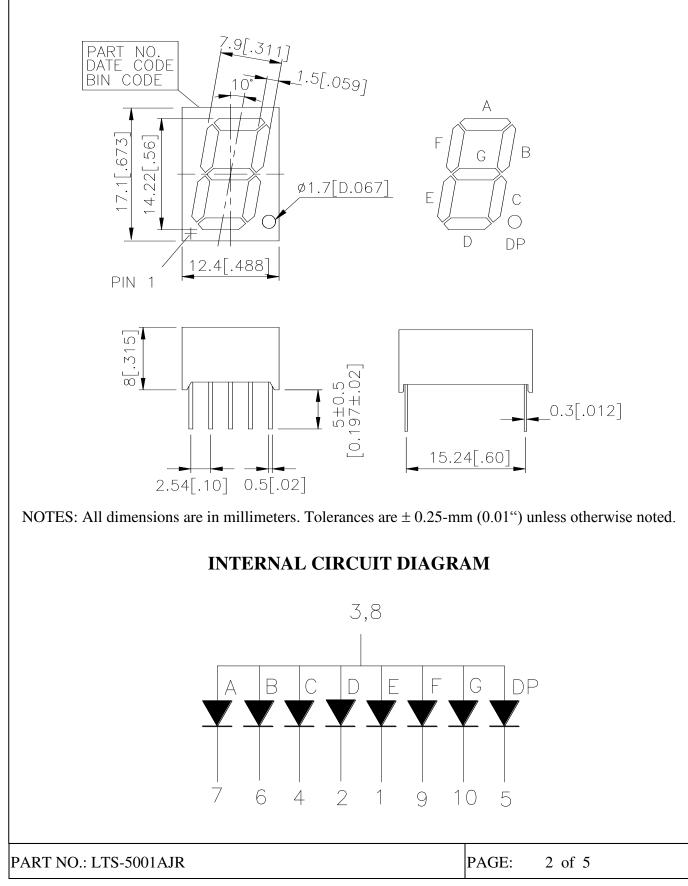
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PACKAGE DIMENSIONS



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PIN CONNECTION

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

PART NO.: LTS-5001AJR

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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 [°] 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 $-35^{\circ}C$ to $+85^{\circ}C$					
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ⁰ C					

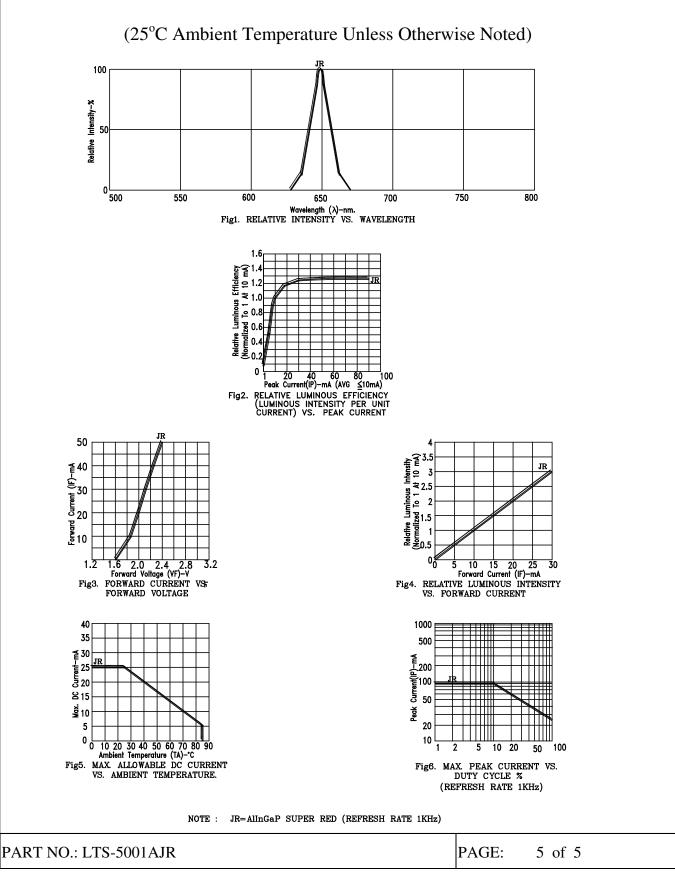
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	700		μcd	IF=1mA
Peak Emission Wavelength	λp		639		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		631		nm	IF=20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	IF=1mA
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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