



Spec No.: DS30-2001-364 Effective Date: 05/07/2002 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-5003AJD is a 0.56-inch (14.22-mm) digit height single digit low current seven-segment display. This device utilizes AlInGaP hi.-eff. red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

DEVICE

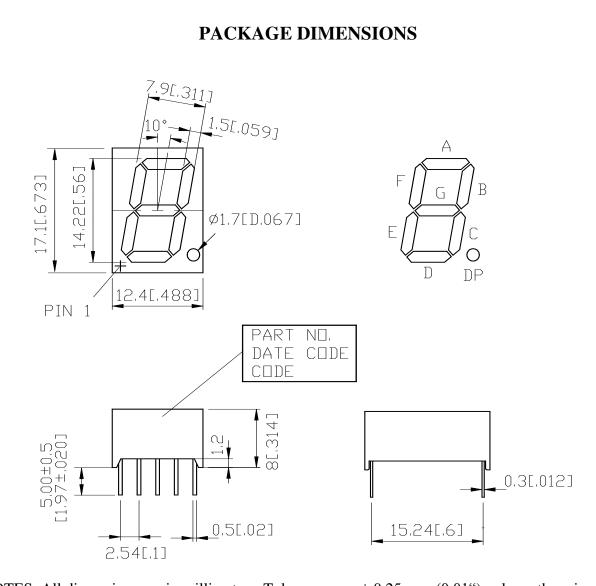
PART NO.	DESCRIPTION		
AlInGaP HIEFF. RED	Common Cathode		
LTS-5003AJD	Rt. Hand Decimal		

PART NO.: LTS-5003AJD



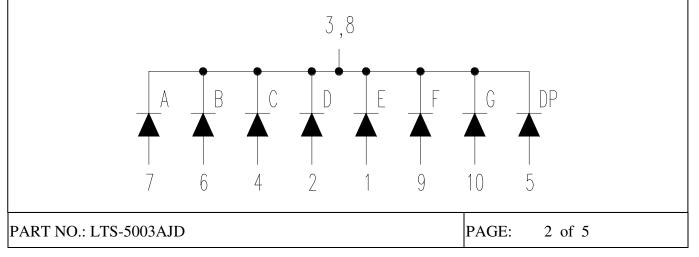
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NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 -mm (0.01") unless otherwise noted.





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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 F
10	ANODE G

PART NO.: LTS-5003AJD

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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 1/16 inch Below Seating P	lane for 3 Seconds at 260 [°] C				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	700		μcd	IF=10mA
Peak Emission Wavelength	λp		656		nm	IF=20mA
Spectral Line Half-Width	Δλ		22		nm	IF=20mA
Dominant Wavelength	λd		640		nm	IF=20mA
Forward Voltage Per Segment	\mathbf{V}_{F}		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=10mA

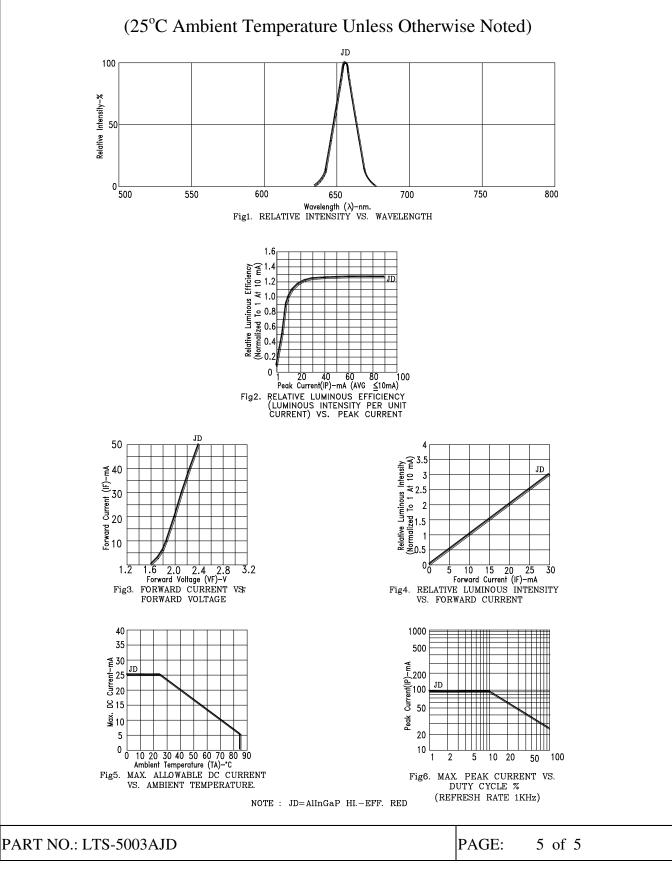
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commision internationale DE L'clariage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



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