



Spec No.: DS30-2001-406 Effective Date: 06/03/2010 Revision: A



BNS-OD-FC001/A4

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#### **FEATURES**

\* 0.4-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.
\* LOW POWER REQUIRMENT.

#### DESCRIPTION

The LTD-4608JG is a 0.4-inch (10-mm) digit height dual digit low current seven-segment display. This device utilizes AlInGaP Green LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

#### DEVICE

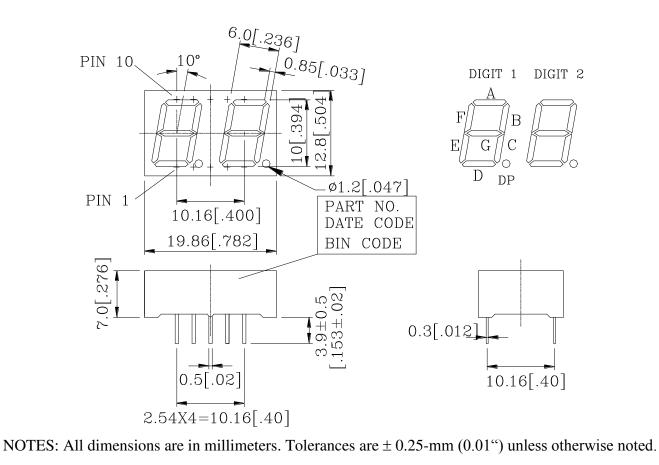
PART NO.	DESCRIPTION			
AlInGaP Green	Dualplex Common Anode			
LTD-4608JG	Rt. Hand Decimal			

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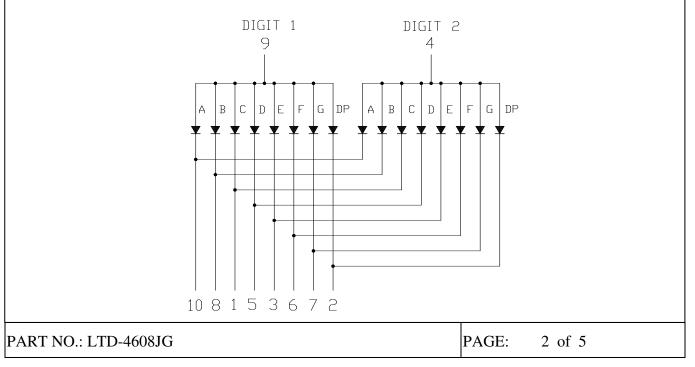
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#### **PACKAGE DIMENSIONS**



#### INTERNAL CIRCUIT DIAGRAM





#### **PIN CONNECTION**

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

PART NO.: LTD-4608JG

#### 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)	60	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 <sup>°</sup> C Per Segment	0.33	mA/ <sup>0</sup> C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C				
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C				
Solder Temperature 1/16 inch Below Seating P	lane for 3 Seconds at 260 <sup>0</sup> C				

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	850		μcd	IF=1mA
Peak Emission Wavelength	λp		571		nm	IF=20mA
Spectral Line Half-Width	Δλ		15		nm	IF=20mA
Dominant Wavelength	λd		572		nm	IF=20mA
Forward Voltage Per Segment	VF		2.05	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μA	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**

