



Spec No.: DS30-2001-397 Effective Date: 05/10/2002 Revision: A



BNS-OD-FC001/A4

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## Property of Lite-On Only

### **FEATURES**

\* 0.56 inch (14.2 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.

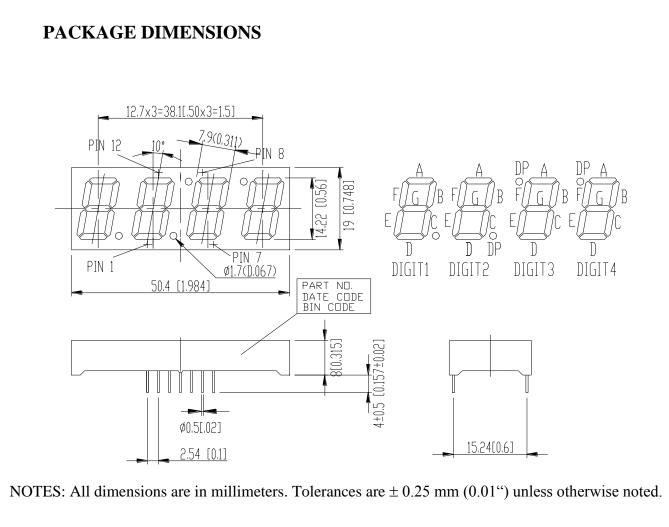
#### DESCRIPTION

The LTC-5753JG-01 is a 0.56 inch (14.2 mm) digit height quadruple digit 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.

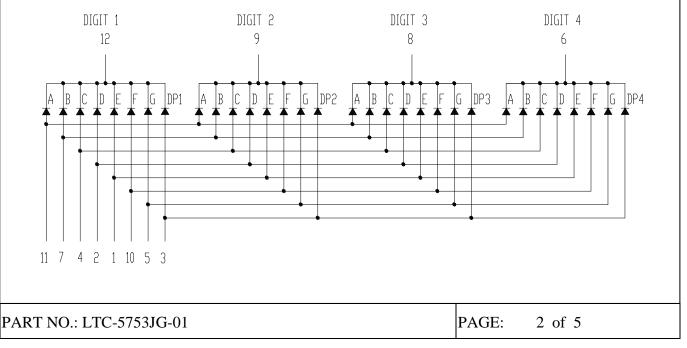
### DEVICE

PART NO.	DESCRIPTION		
AlInGaP Green	MULTIPLEX		
LTC-5753JG-01	COMMON CATHODE		

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## INTERNAL CIRCUIT DIAGRAM



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## **PIN CONNECTION**

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

PART NO.: LTC-5753JG-01

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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)	60	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	$-35^{\circ}$ C to $+85^{\circ}$ C			
Storage Temperature Range	-35°C to +85°C			
Solder Temperature: max $260^{\circ}$ C for max 3sec at 1.6mm[1/16inch] below seating plane.				

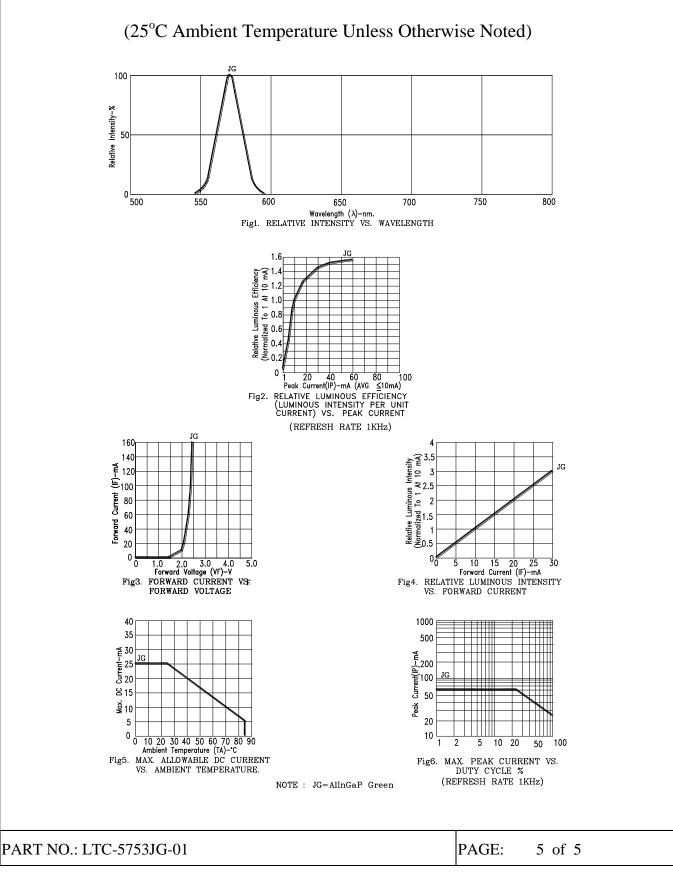
## ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	464		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	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**



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