



Spec No.: DS30-2008-0025 Effective Date: 05/28/2008

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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Property of Lite-On Only

FEATURES

- *0.56 INCH (14.22 mm) DIGIT HEIGHT.
- *CONTINUOUS UNIFORM SEGMENTS.
- *SUSTAIN UNDER HIGH TEMPERATURE
- *LOW POWER REQUIREMENT.
- *EXCELLENT CHARACTERS APPEARANCE.
- *HIGH BRIGHTNESS & HIGH CONTRAST.
- *WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- *LEAD-FREE PACKAGE (ACCORDING TO RoHS).

DESCRIPTION

The LTC-5769G-01J is a 0.56 inch (14.22 mm) height seven-segment display. This device utilizes green LED chips, which are made from GaP on a transparent GaP substrate and SMT epoxy, and has a light gray face and green segments.

DEVICE

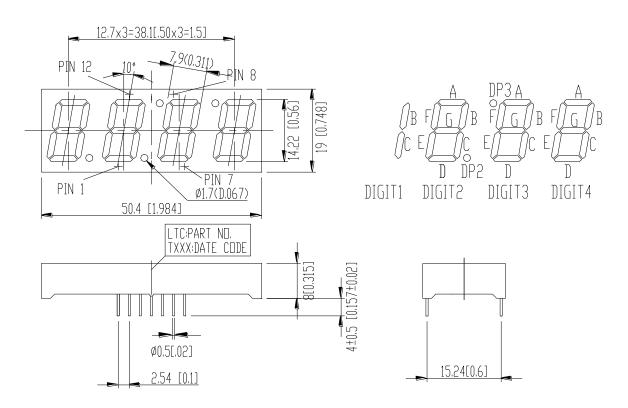
PART NO.	DESCRIPTION
GREEN	Common Cathode
LTC-5769G-01J	R.t Hand Decimal

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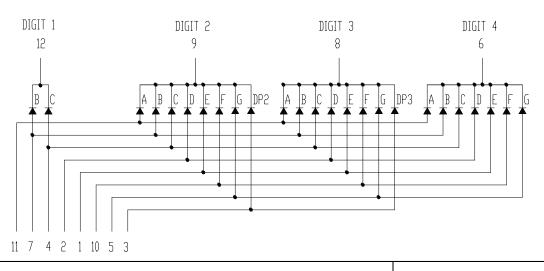
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PACKAGE DIMENSIONS



NOTES: 1.All dimensions are in millimeters. Tolerances are \pm 0.25 mm unless otherwise noted. 2.Pin tip's shift tolerance is \pm 0.4mm.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION
1	ANODE E
2	ANODE D
3	ANODE D.P.
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)

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ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	75	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 ^o C Per Segment	0.28	mA/ ⁰ C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35° C to $+105^{\circ}$ C				
Storage Temperature Range	-35^{0} C to $+105^{0}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 5 Seconds at 260 ^o C					

^{*} see figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2400		μcd	I _F =10mA
Peak Emission Wavelength	λρ		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Segment	V_{F}		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	IR			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		I=10mA

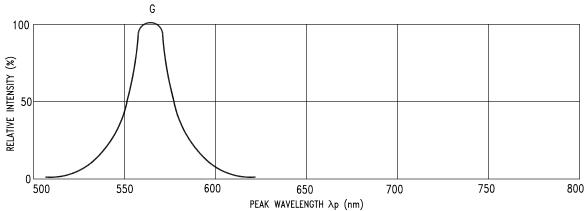
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commission international De L'Eclairage) eye-response curve.

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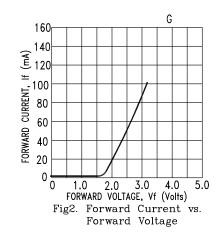
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

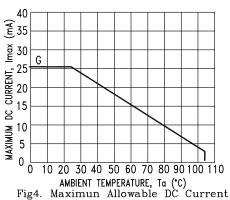


PEAK WAVELENGTH λp (nm) Fig1.Spectral Emission

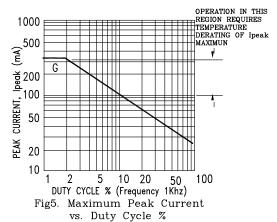


REPUBLIC CORRENT, If (mA)

Fig3. Relative Luminous Intensity



vs. Ambient Temperature



vs. DC Forward Current

NOTE: G=GREEN.

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