



Spec No.: DS-30-99-145Effective Date: 05/29/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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FEATURES

- *0.5 inch (12.7 mm) DIGIT HEIGHT.
- *CONTINUOUS UNIFORM SEGMENTS.
- *LOW POWER REQUIREMENT.
- *EXCELLENT CHARACTERS APPEARANCE.
- *HIGH BRIGHTNESS & HIGH CONTRAST.
- *WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.

DESCRIPTION

The LTC-5665G is a 0.5 inch (12.7 mm) digit height quad digit seven-segment display. This device utilizes green LED chips, which are made from GaP on GaP substrate, and has a black face and white segments.

DEVICE

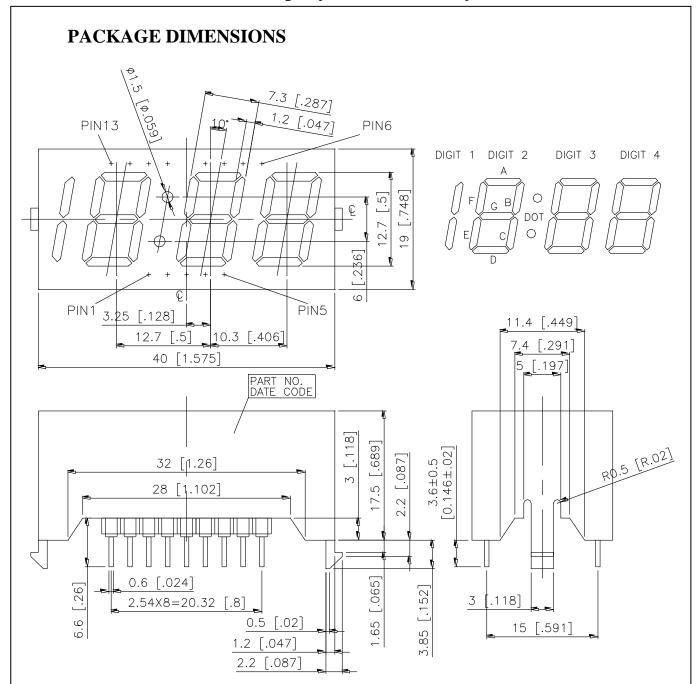
PART NO.	DESCRIPTION
GREEN	
LTC-5665G	Multiplex Common Anode

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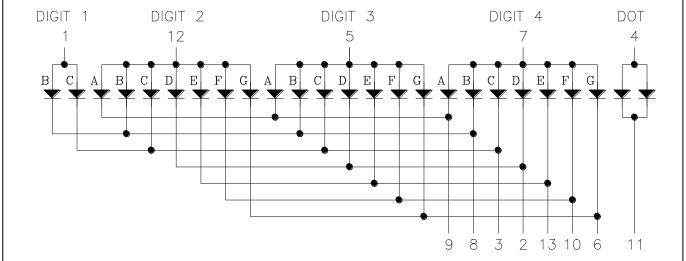
NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

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INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

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°C Per Segment	0.33	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

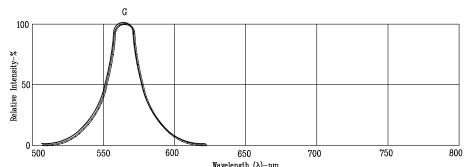
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λр		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			10	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

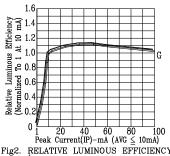
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve.

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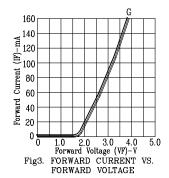
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

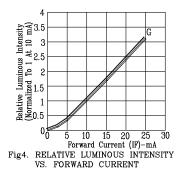
(25°C Ambient Temperature Unless Otherwise Noted)

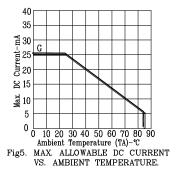


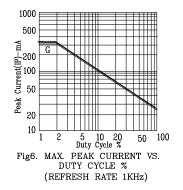


0 7 1 20 40 60 80 100
Peak Current(IP)-mA (AVG \(\) 100A)
RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT
(REFRESH RATE 1KHz)









NOTE: G=GREEN

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