



**Spec No.: DS-30-98-168** Effective Date: 05/29/2001 Revision: -



BNS-OD-FC001/A4

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# LITEON LITE-ON ELECTRONICS, INC.

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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.

#### DESCRIPTION

The LTC-4646G is a 0.4 inch (10.0 mm) digit height quadruple digit seven-segment display. This device utilizes green LED chips, which are made from GaP on GaP substrate, and has a gray face and white segments.

#### DEVICE

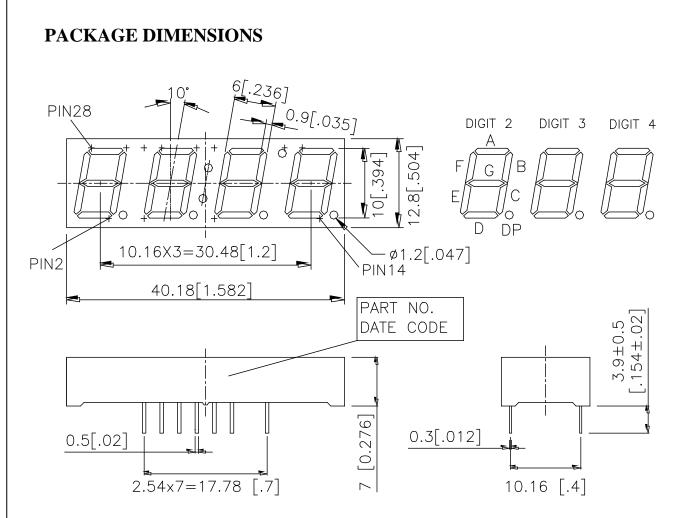
PART NO.	DESCRIPTION			
Green	Multiplex Common Anode			
LTC-4646G	Rt. Hand Decimal			

PART NO.: LTC-4646G

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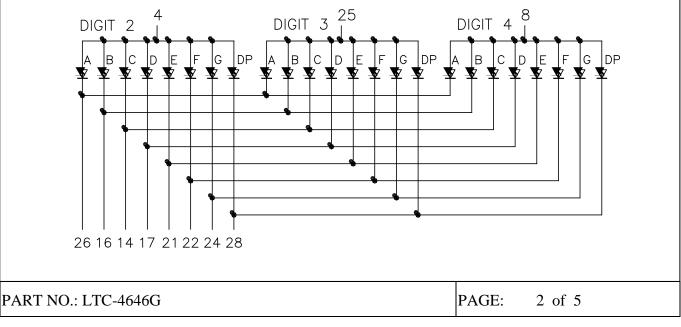
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NOTES: All dimensions are in millimeters. Tolerances are  $\pm 0.25$  mm (0.01") unless otherwise noted.

#### INTERNAL CIRCUIT DIAGRAM



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#### **PIN CONNECTION**

NO	CONNECTION	NO	CONNECTION		
1	NO PIN	15	NO PIN		
2	NO CONNECTION	16	CATHODE B		
3	NO PIN	17	CATHODE D		
4	COMMON ANODE DIGIT 2	18	NO PIN		
5	NO PIN	19	NO PIN		
6	NO PIN	20	NO PIN		
7	NO PIN	21	CATHODE E		
8	COMMON ANODE DIGIT 4	22	CATHODE F		
9	NO PIN	23	NO PIN		
10	NO PIN	24	CATHODE G		
11	NO PIN	25	COMMON ANODE DIGIT 3		
12	NO PIN	26	CATHODE A		
13	NO PIN	27	NO PIN		
14	CATHODE C	28	CATHODE DP		

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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	$-35^{\circ}$ C to $+85^{\circ}$ C			
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C			
Solder Temperature: max $260^{\circ}$ C for max 3sec at 1.6mm below seating plane.				

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

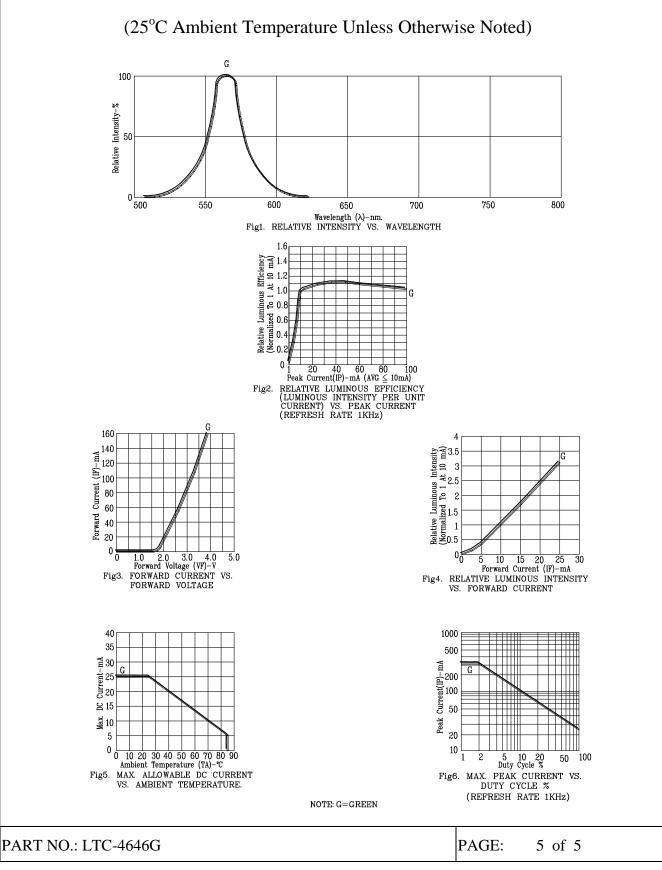
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	IF=10mA
Peak Emission Wavelength	λp		565		nm	IF=20mA
Spectral Line Half-Width	Δλ		30		nm	IF=20mA
Dominant Wavelength	λd		569		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

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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#### **Mouser Electronics**

Authorized Distributor

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Lite-On: LTC-4646G