



Spec No.: DS30-2004-126Effective Date: 06/12/2004

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.24 inch (6 mm) DIGIT HEIGHT
- *CONTINUOUS UNIFORM SEGMENTS
- ***LOW POWER REQUIREMENT**
- *EXCELLENT CHARACTERS APPEARANCE
- *HIGH BRIGHTNESS & HIGH CONTRAST
- *WIDE VIEWING ANGLE
- *** SOLID STATE RELIABILITY**

DESCRIPTION

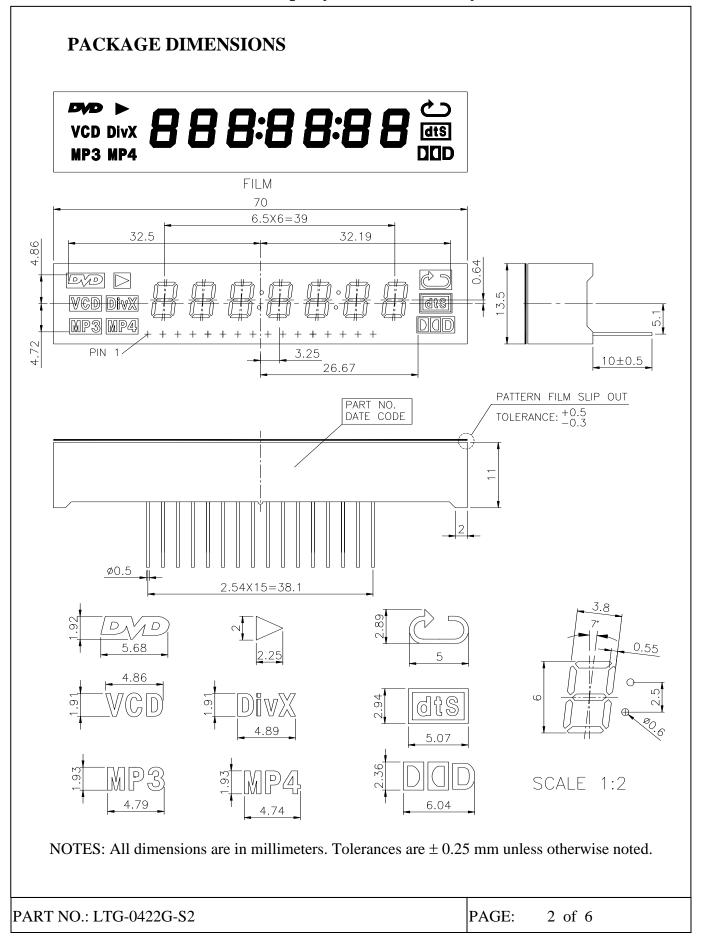
The LTG-0422G-S2 is a 0.24 inch (6 mm) digit height 6 digit seven-segment with several icons display. This device is multi-color applicable display. It uses GREEN LED chips (GaP epi on GaP substrate). The display is covered with a black pattern film, and packaged with white epoxy.

DEVICE

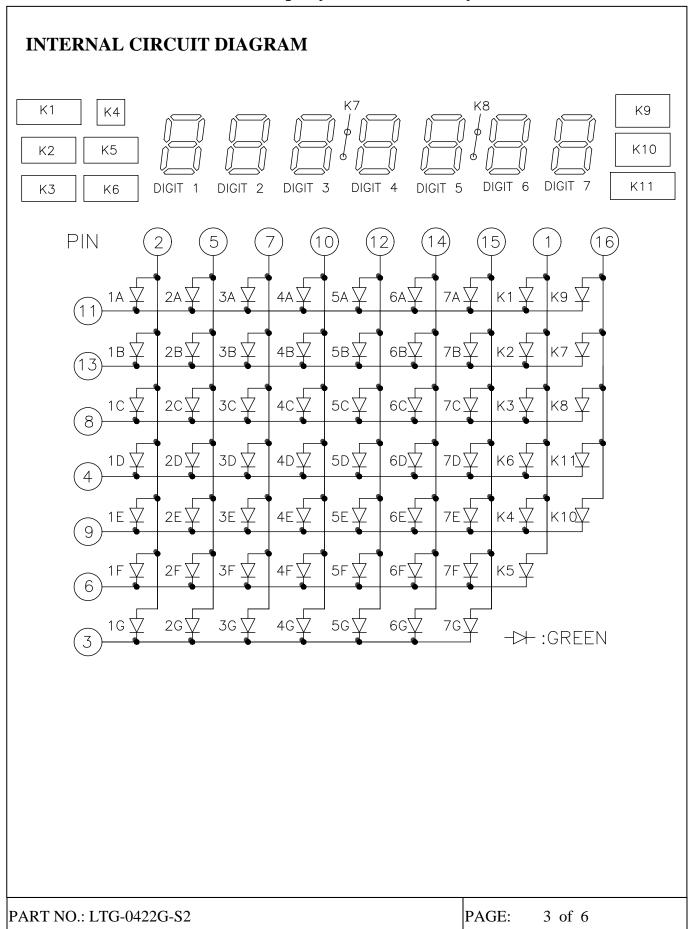
PART NO.	DESCRIPTION		
GREEN			
LTG-0422G-S2	Multiplex Common Anode		

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PIN CONNECTION

NO	CONNECTION				
1	COMMON ANODE K1~K6				
2	COMMON ANODE DIGIT 1				
3	CATHODE 1G,2G,3G,4G,5G,6G,7G				
4	CATHODE 1D,2D,3D,4D,5D,6D,7D,K6,K11				
5	COMMON ANODE DIGIT 2				
6	CATHODE 1F,2F,3F,4F,5F,6F,7F,K5				
7	COMMON ANODE DIGIT 3				
8	CATHODE 1C,2C,3C,4C,5C,6C,7C,K3,K8				
9	CATHODE 1E,2E,3E,4E,5E,6E,7E,K4,K10				
10	COMMON ANODE DIGIT 4				
11	CATHODE 1A,2A,3A,4A,5A,6A,7A,K1,K9				
12	COMMON ANODE DIGIT 5				
13	CATHODE 1B,2B,3B,4B,5B,6B,7B,K2,K7				
14	COMMON ANODE DIGIT 6				
15	COMMON ANODE DIGIT 7				
16	COMMON ANODE K7~K11				

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ABSOLUTE MAXIMUM RATING

PARAMETER	GREEN	UNIT			
Power Dissipation Per Chip	75	mW			
Peak Forward Current Per Chip (Frequency 1Khz, 10% duty cycle)	100*	mA			
Continuous Forward Current Per Chip	25	mA			
Derating Linear From 25 [°] C Per Chip	0.33	mA/°C			
Reverse Voltage Per Chip	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range -35° C to $+85^{\circ}$ C					
Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane					

^{*}see figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

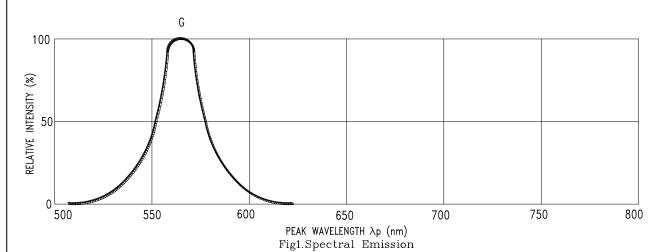
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	Iv	200	650		μcd	$I_F = 10 \text{mA}$
Peak Emission Wavelength	λр		565		nm	$I_F = 20 \text{mA}$
Spectral Line Half-Width	Δλ		30		nm	$I_F = 20 \text{mA}$
Dominant Wavelength	λd		569		nm	$I_F = 20mA$
Forward Voltage Per Chip	VF		2.1	2.6	V	$I_F = 10mA$
Reverse Current Per Chip	IR			100	μΑ	$V_R = 5V$
Luminous Intensity Matching Ratio	Iv-m			2:1		$I_F = 10 \text{mA}$

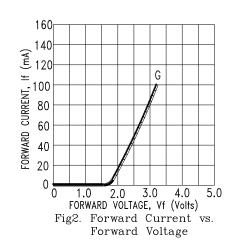
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)





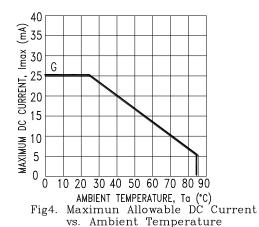
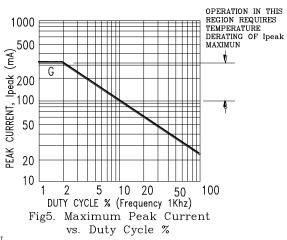


Fig3. Relative Luminous Intensity vs. DC Forward Current



NOTE: G=GREEN.

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