



LED Display

Product Data Sheet

LTG-0275G

Spec No.: DS30-2003-036

Effective Date: 04/18/2003

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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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

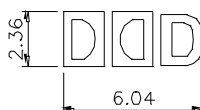
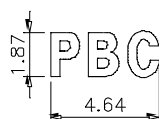
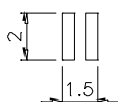
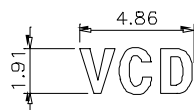
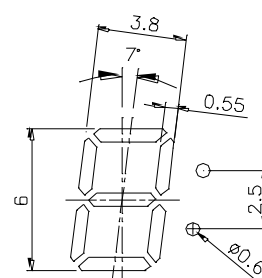
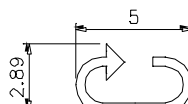
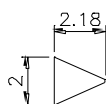
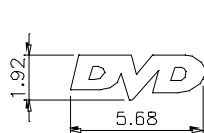
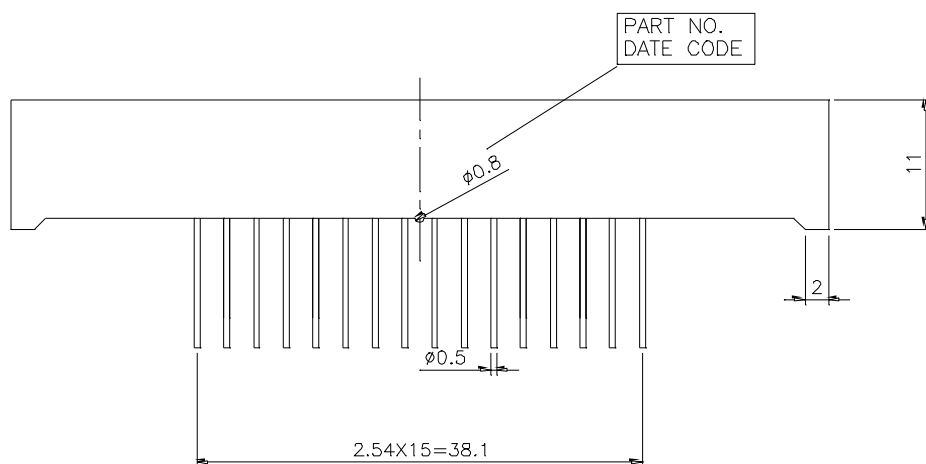
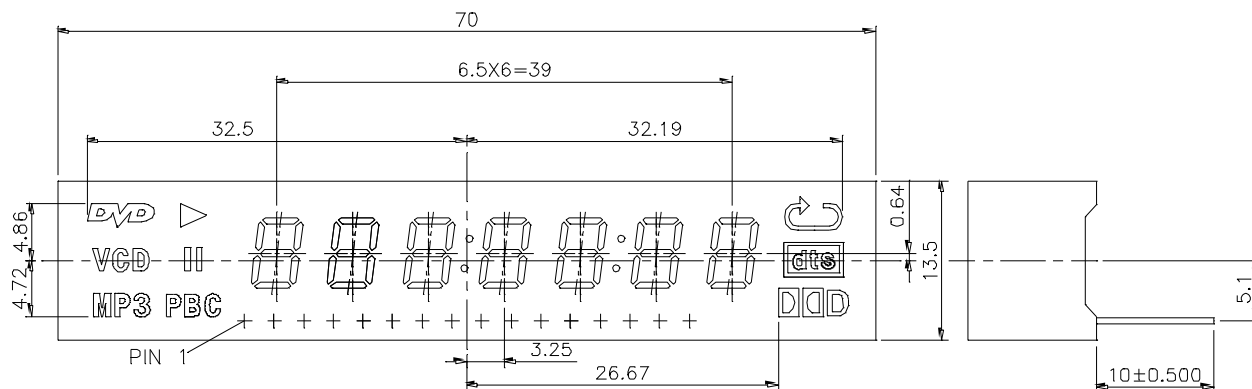
DESCRIPTION

The LTG-0275G 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 has a black face and white segments.

DEVICE

PART NO.	DESCRIPTION
GREEN	Multiplex Common Anode
LTG-0275G	

PACKAGE DIMENSIONS



SCALE 1:2

JAPAN PATENT:3075028

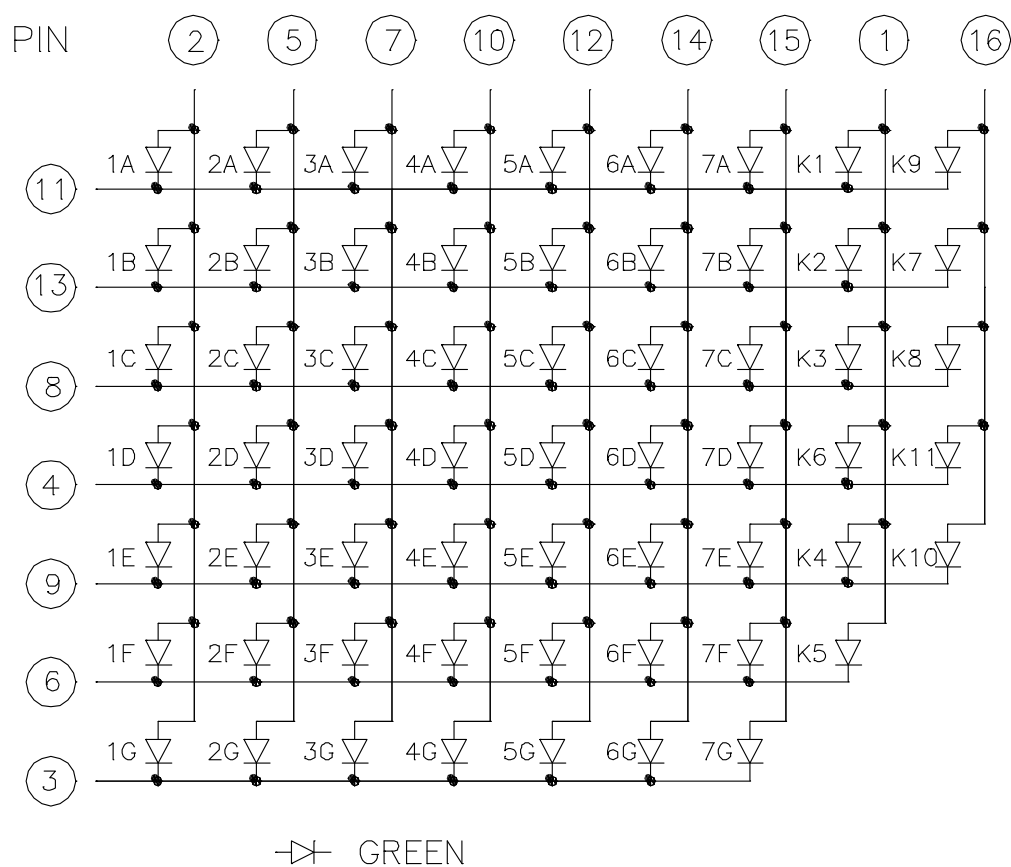
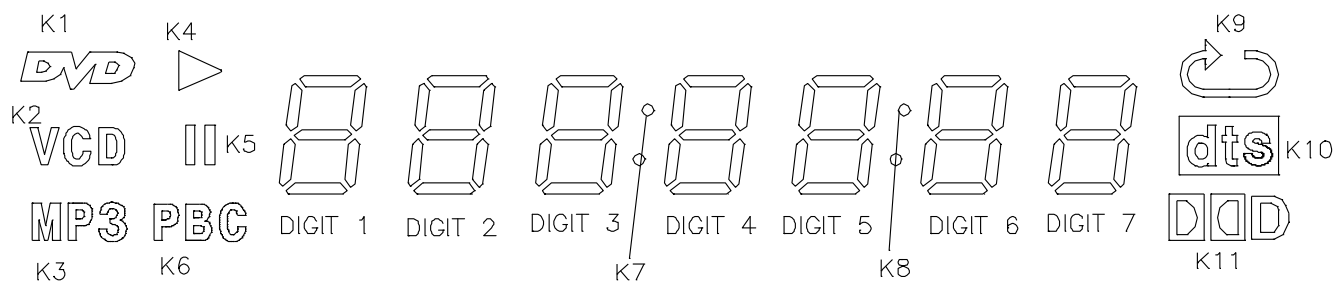
TAIWAN PATENT:089211101

KOREA PATENT:0209198

CHINA PATENT:440339

NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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

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°C	
Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane		

**see figure 5 to establish pulsed condition*

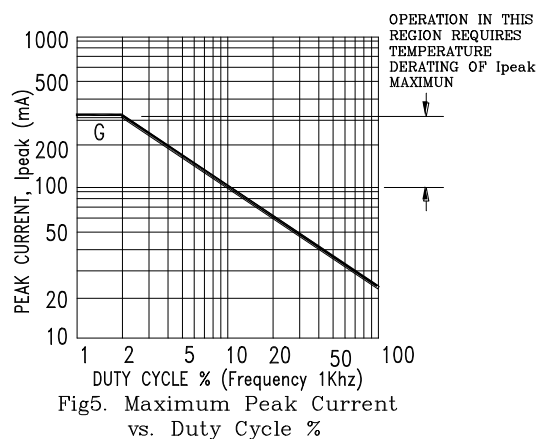
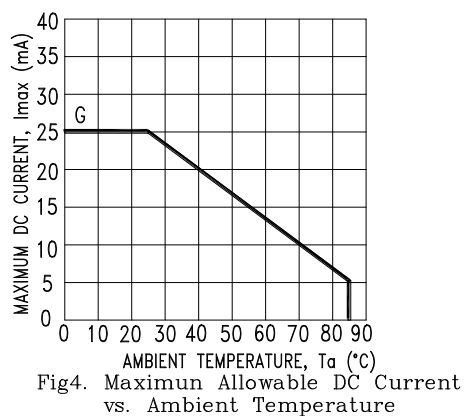
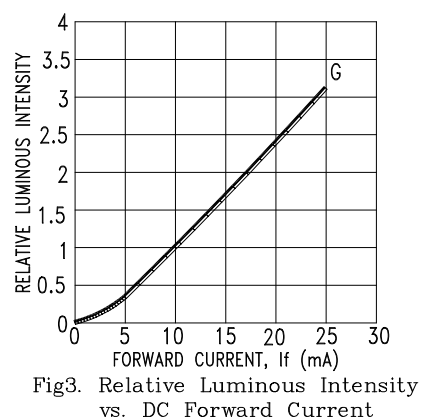
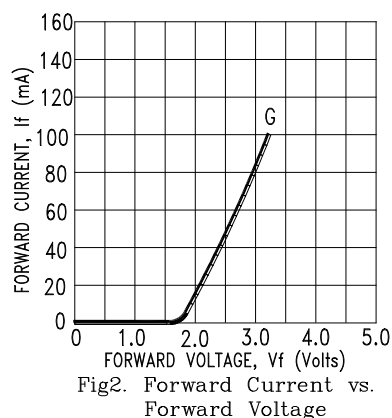
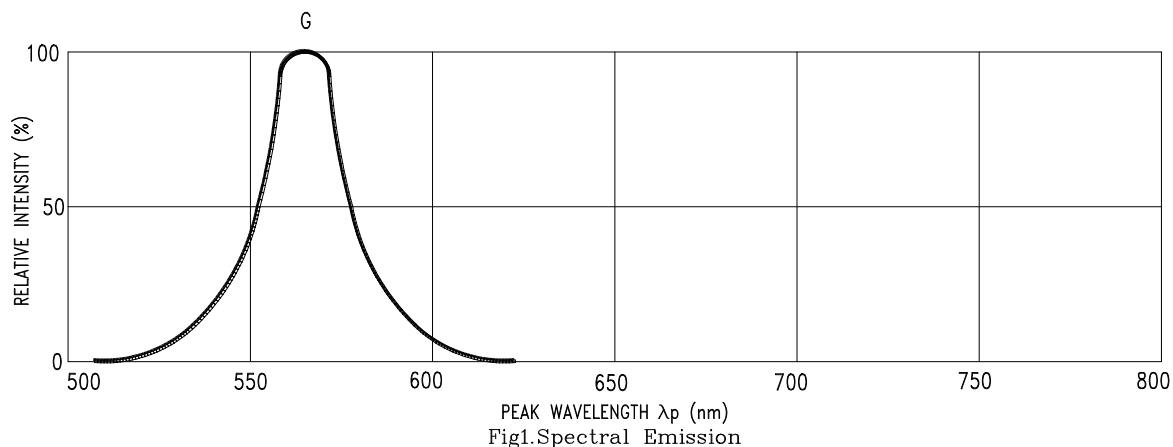
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C
GREEN

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I _v	500	1600		μcd	I _F = 10mA
Peak Emission Wavelength	λ _p		565		nm	I _F = 20mA
Spectral Line Half-Width	Δλ		30		nm	I _F = 20mA
Dominant Wavelength	λ _d		569		nm	I _F = 20mA
Forward Voltage Per Chip	V _F		2.1	2.6	V	I _F = 10mA
Reverse Current Per Chip	I _R			100	μA	V _R = 5V
Luminous Intensity Matching Ratio	I _v -m			2:1		I _F = 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.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE: G=GREEN.