

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
- * **LEAD-FREE PACKAGE**

DESCRIPTION

The LTG-0122M-05 is a 0.24 inch (6 mm) digit height 6 digit seven-segment display. This device is multi-color applicable display. It uses GREEN LED chips (GaP epi on GaP substrate) and RED ORANGE LED chips (GaAsP epi on GaP substrate). The display has a black face and white segments.

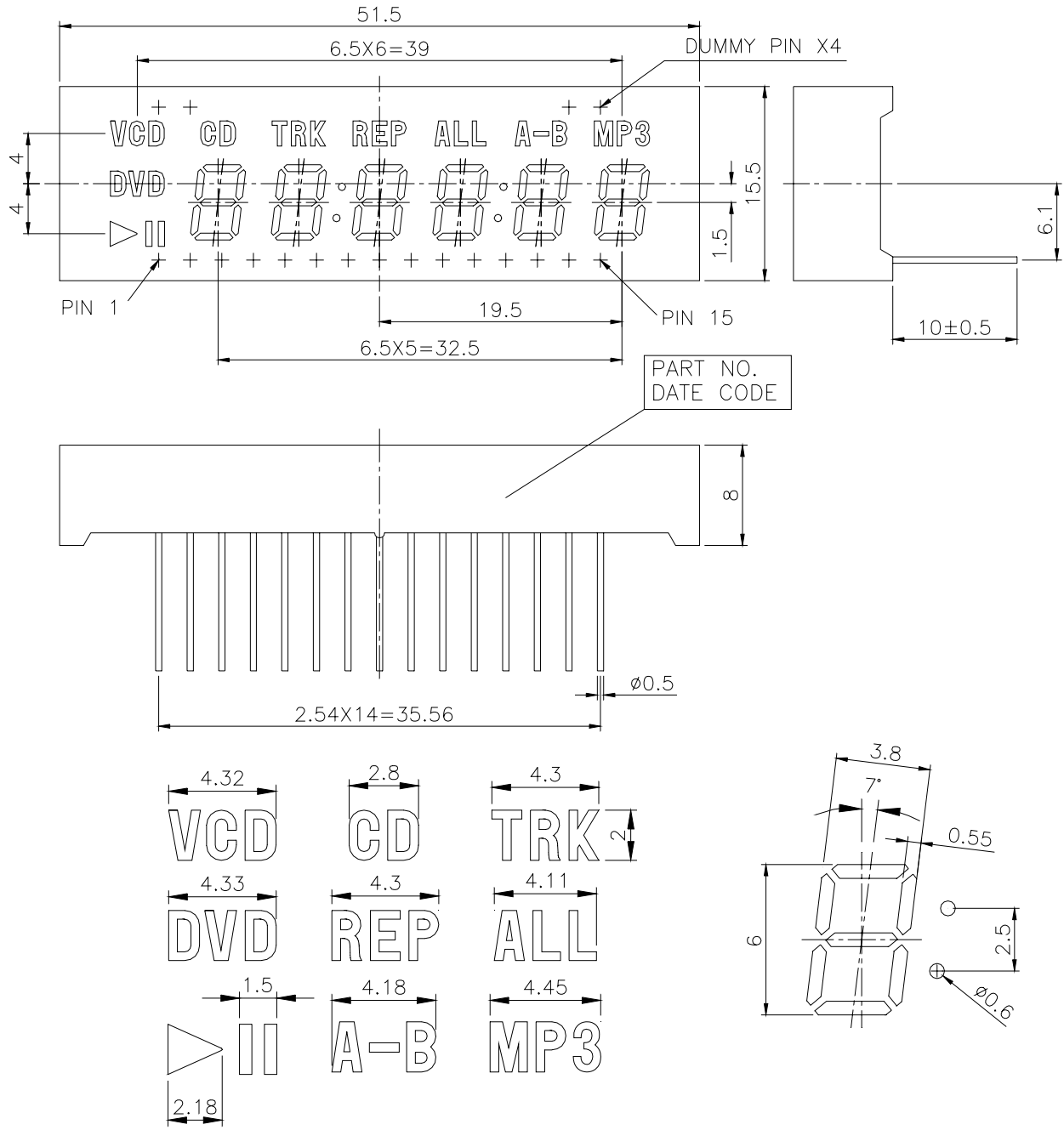
DEVICE

PART NO.	DESCRIPTION
GREEN & RED ORANGE	Multiplex Common Anode
LTG-0122M-05	

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PACKAGE DIMENSIONS



JAPAN PATENT:3075028

KOREA PATENT:0209198

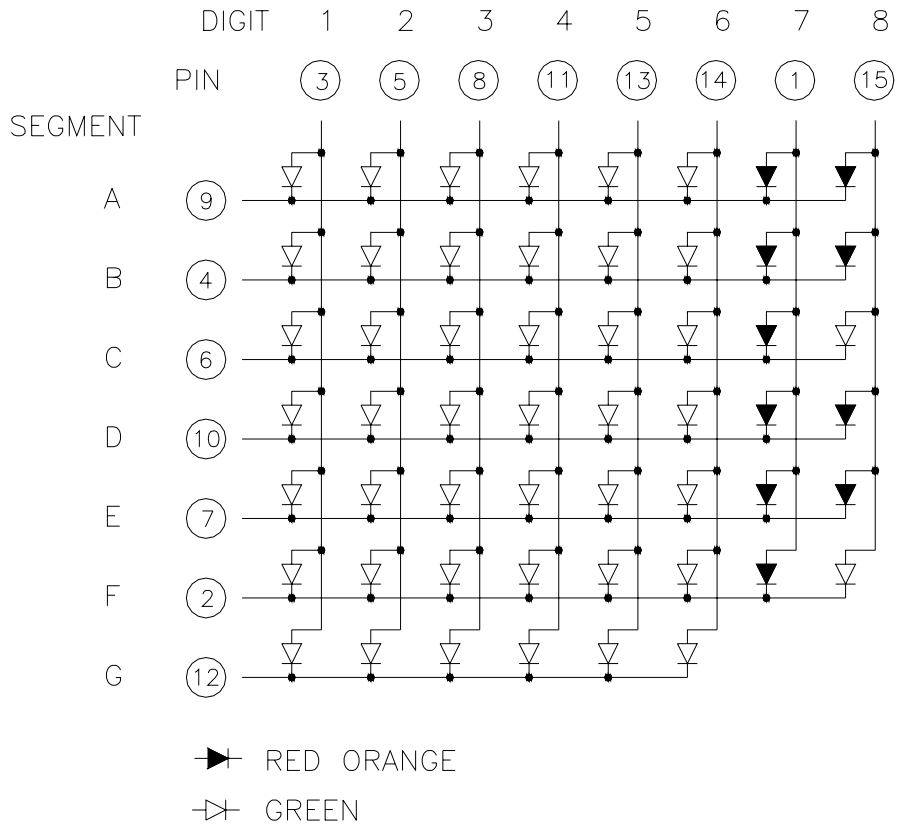
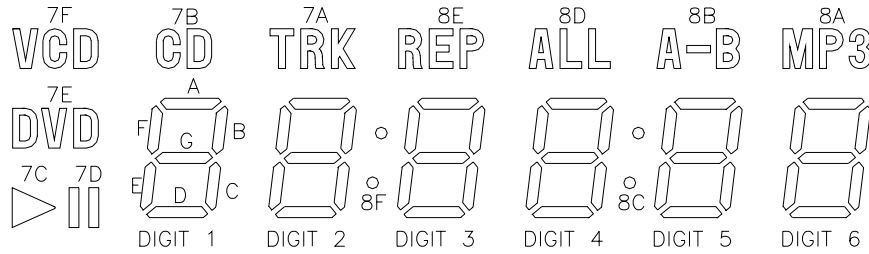
NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm unless otherwise noted.

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BNS-OD-C131/A4

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO	CONNECTION
1	Common Anode 7A~7F
2	Cathode F
3	Common Anode (Digit 1)
4	Cathode B
5	Common Anode (Digit 2)
6	Cathode C
7	Cathode E
8	Common Anode (Digit 3)
9	Cathode A
10	Cathode D
11	Common Anode (Digit 4)
12	Cathode G
13	Common Anode (Digit 5)
14	Common Anode (Digit 6)
15	Common Anode 8A~8F

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ABSOLUTE MAXIMUM RATING

PARAMETER	GREEN	RED ORANGE	UNIT
Power Dissipation Per Chip	75	75	mW
Peak Forward Current Per Chip (Frequency 1Khz, 10% duty cycle)	100*	100*	mA
Continuous Forward Current Per Chip	25	25	mA
Derating Linear From 25 Per Chip	0.33	0.33	mA/
Reverse Voltage Per Chip	5	5	V
Operating Temperature Range	-35 to +85		
Storage Temperature Range	-35 to +85		
Solder Temperature: max 260 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

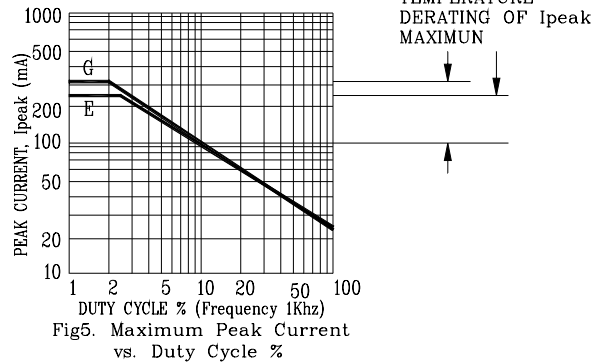
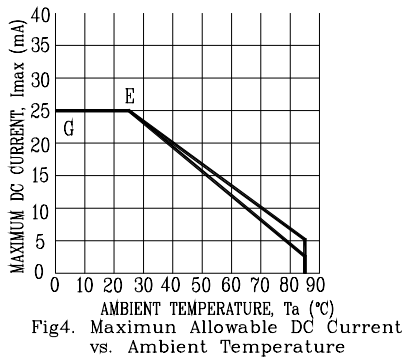
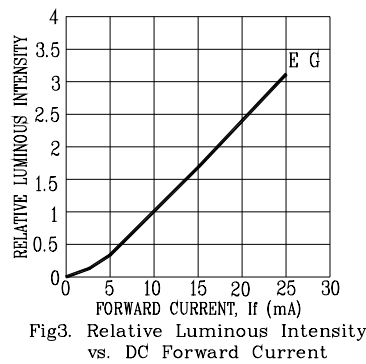
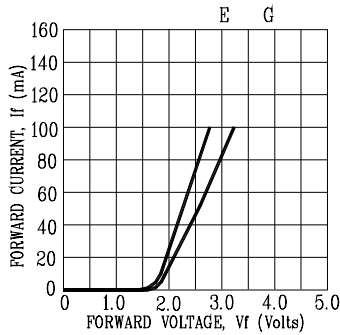
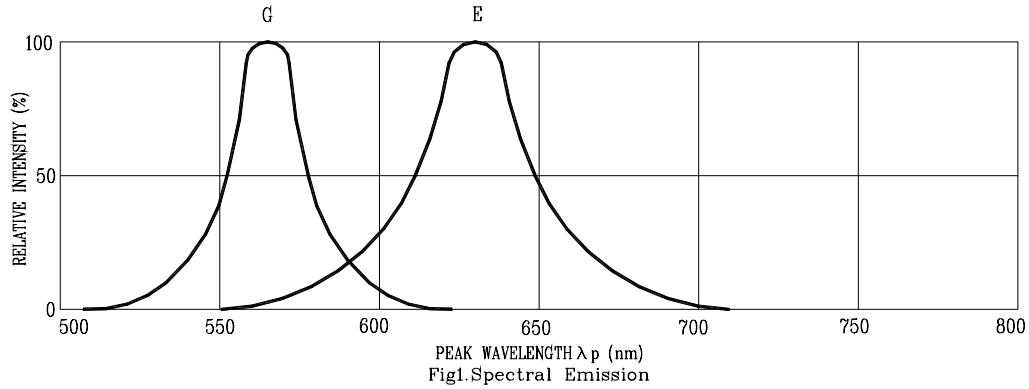
RED ORANGE

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Sterance	I _v	500	1600		μcd	I _F = 10mA
Peak Emission Wavelength	λ _p		630		nm	I _F = 20mA
Spectral Line Half-Width	Δλ		40		nm	I _F = 20mA
Dominant Wavelength	λ _d		621		nm	I _F = 20mA
Forward Voltage Per Chip	V _F		2	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 E=RED ORANGE