FEATURES

- 0.6 INCH (15 mm) DIGIT HEIGHT.
- CONTINUOUS UNIFORM SEGMENTS.
- LOW POWER REQUIREMENT.
- EXCELLENT CHARACTERS APPEARANCE.
- HIGH BRIGHTNESS & HIGH CONTRAST.
- DESIGNED FOR CLOCK INDICATION, TIMER FREQUENCY COUNTER,…,ETC.

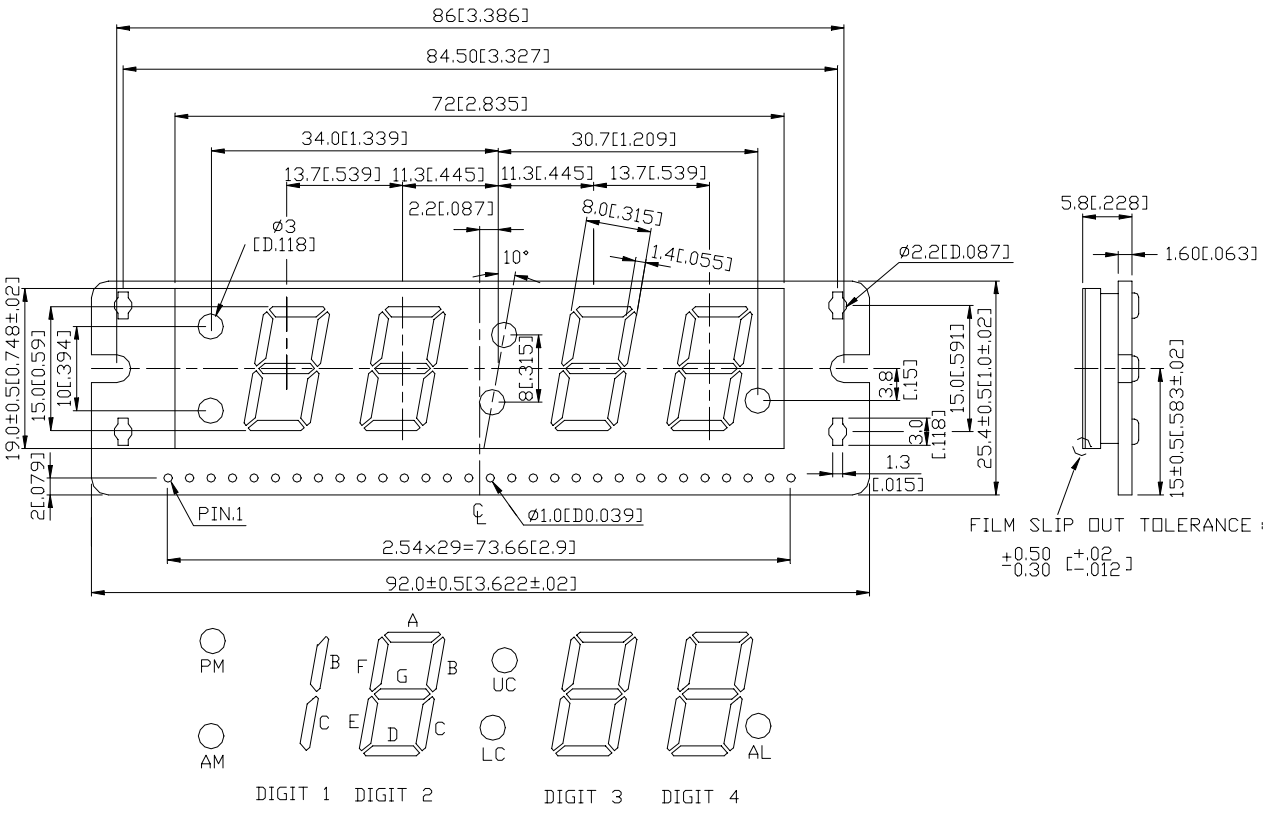
DESCRIPTION

The LTC-637C1G-12 is a 0.6 inch (15 mm) digit height display. This device utilizes Green LED chips, which are made from GaP on GaP substrate. A green diffusion tape is added on it.

DEVICE

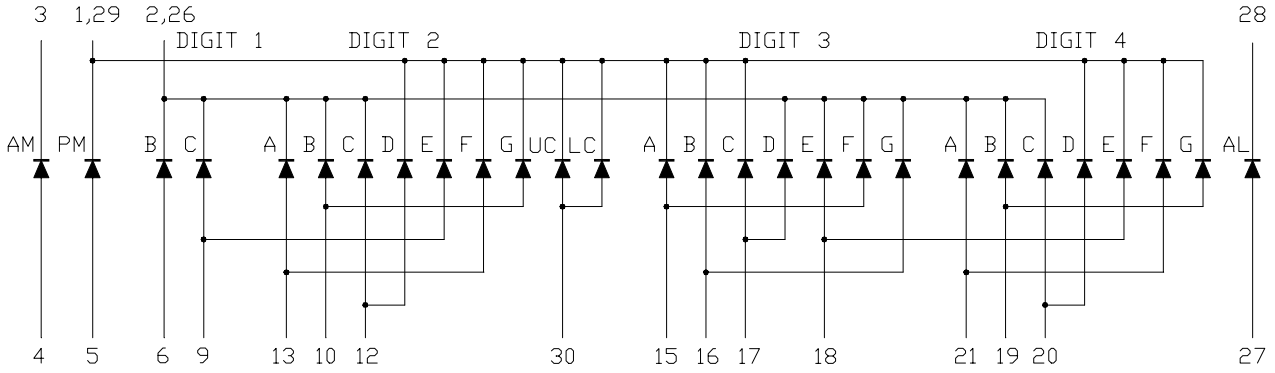
PART NO.	DESCRIPTION
Green	Common Cathode
LTC-637C1G-12	

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO.	CONNECTION	NO.	CONNECTION
1	Common Cathode 1	16	Digit 3 Anode B, Digit 3 Anode G
2	Common Cathode 2	17	Digit 3 Anode C, Digit 3 Anode D
3	Cathode AM	18	Digit 3 Anode E, Digit 4 Anode E
4	Anode AM	19	Digit 4 Anode B, Digit 4 Anode G
5	Anode PM	20	Digit 4 Anode C, Digit 4 Anode D
6	Digit 1 Anode B	21	Digit 4 Anode A, Digit 4 Anode F
7	No Connection	22	No Connection
8	No Connection	23	No Connection
9	Digit 2 Anode E, Digit 1 Anode C	24	No Connection
10	Digit 2 Anode B, Digit 2 Anode G	25	No Connection
11	No Connection	26	Common Cathode 2
12	Digit 2 Anode C, Digit 2 Anode D	27	Anode AL
13	Digit 2 Anode A, Digit 2 Anode F	28	Cathode AL
14	No Connection	29	Common Cathode 1
15	Digit 3 Anode A, Digit 3 Anode F	30	Anode UC, Anode LC

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
Forward Voltage, Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-25°C to +65°C	
Storage Temperature Range	-25°C to +65°C	
Solder Temperature: 3.5mm Below PCB.back side for 3sec. at 260°C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	200	600		μcd	I_F=10mA
Peak Emission Wavelength	λp		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	V_F		2.1	2.6	V	I_F=20mA
Reverse Current Per Segment	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'Eclariage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

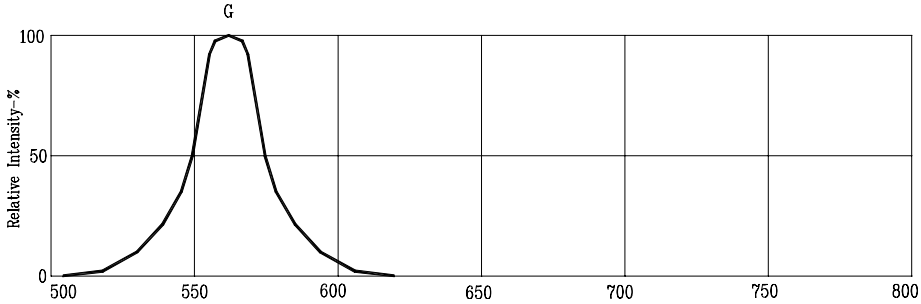


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

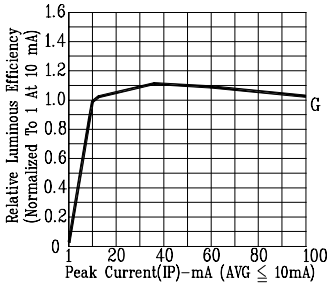


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)

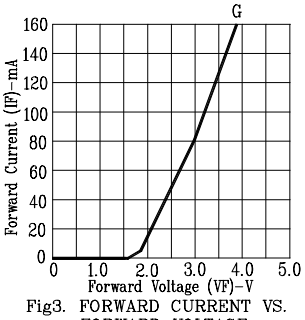


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

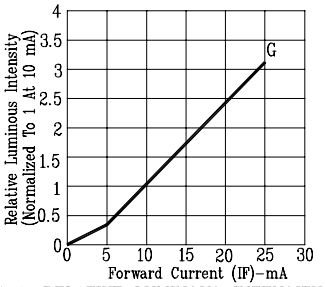


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

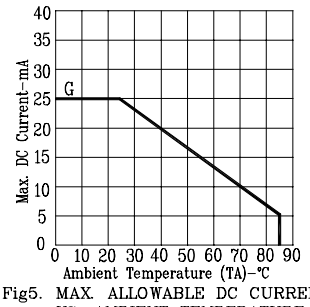


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

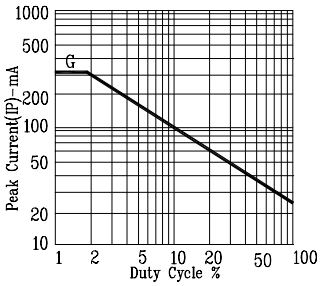


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: G=GREEN