FEATURES

- 0.6 INCH (15 mm) DIGIT HEIGHT.
- CONTINUOUS UNIFORM SEGMENTS.
- LOW POWER REQUIREMENT.
- LONG DISTANCE VIEWING.
- COLOR FILTER PROVIDES HIGH CONTRAST.
- HIGH RELIABILITY AND LONG LIFE.
- WIDE VIEWING ANGLE.
- FULL FEATURE SELECTABLE.
- FREQUENCY DISPLAY.
- DESIGNED FOR CLOCK INDICATION, TIMER FREQUENCY COUNTER, INSTRUMENT…,ETC.

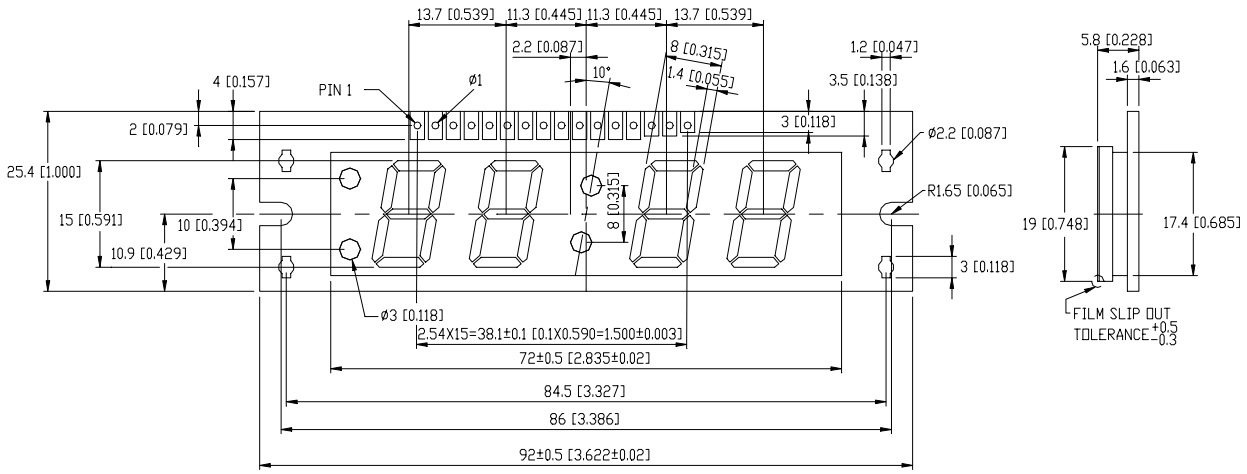
DESCRIPTION

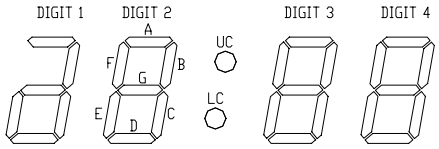
The LTC-6512GDR4 is a 0.6 inch (15 mm) digit height display. This device utilizes green LED chips, which are made from GaP on a transparent GaP substrate.

DEVICE

PART NO.	DESCRIPTION
Green	Common Cathode
LTC-6512GDR4	

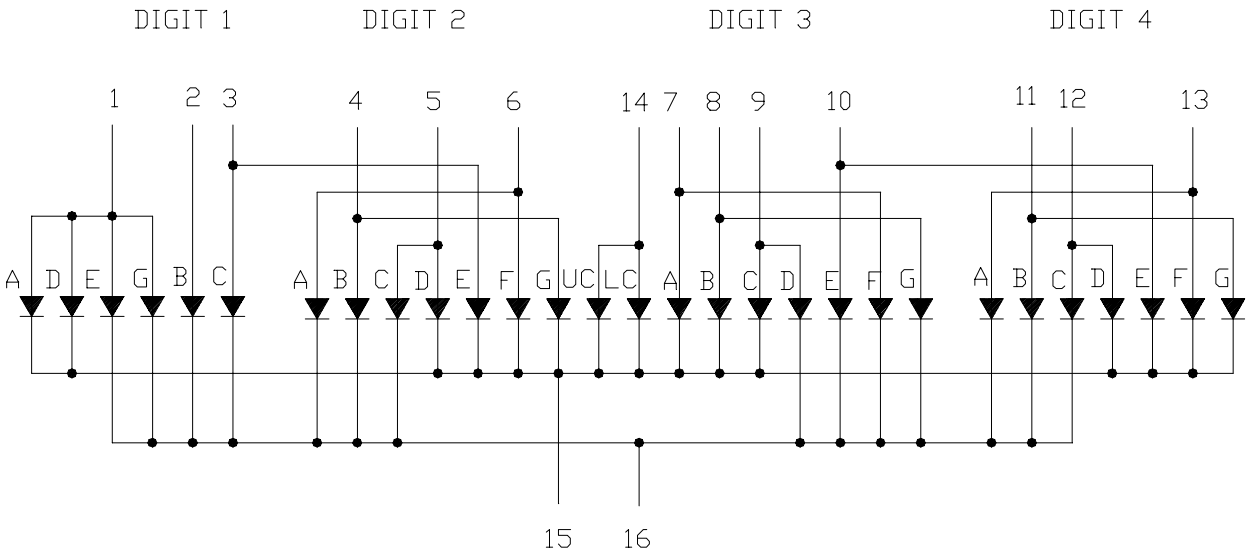
PACKAGE DIMENSIONS





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

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO.	CONNECTION
1	ANODE 1A,1D,1E,1G
2	ANODE 1B
3	ANODE 1C,2E
4	ANODE 2B,2G
5	ANODE 2C,2D
6	ANODE 2A,2F
7	ANODE 3A,3F
8	ANODE 3B,3G
9	ANODE 3C,3D
10	ANODE 3E,4E
11	ANODE 4B,4G
12	ANODE 4C,4D
13	ANODE 4A,4F
14	ANODE UC,LC
15	CATHODE 1AD,2DEFG,UC,LC,3ABC,4DEFG
16	CATHODE 1BCEG,2ABC,3DEFG,4ABC

ABSOLUTE MAXIMUM RATING AT T_A=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 T_A=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)

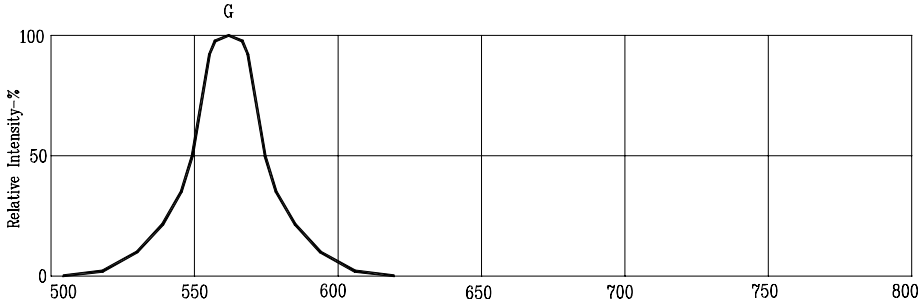


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

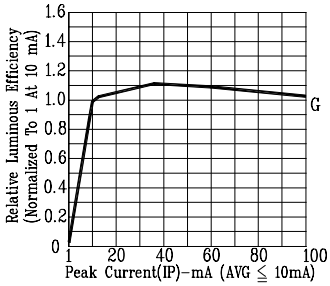


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)

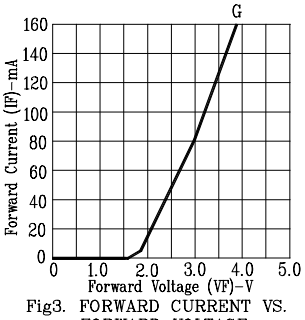


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

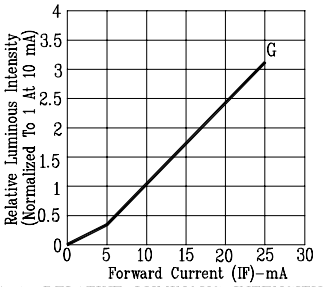


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

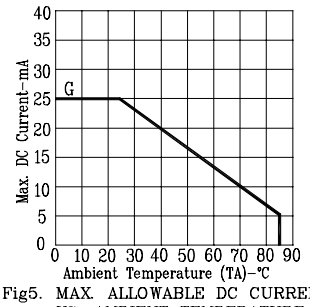


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

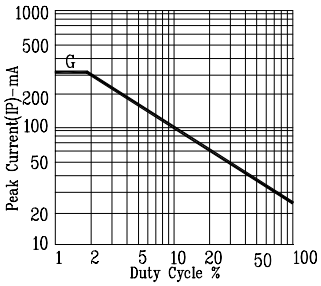


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: G=GREEN