FEATURES

* 0.56 INCH (14.22 mm) DIGIT HEIGHT.
* CONTINUOUS UNIFORM SEGMENTS.
* SUSTAIN UNDER HIGH TEMPERATURE
* LOW POWER REQUIREMENT.
* EXCELLENT CHARACTERS APPEARANCE.
* HIGH BRIGHTNESS & HIGH CONTRAST.
* WIDE VIEWING ANGLE.
* SOLID STATE RELIABILITY.
* **LEAD-FREE PACKAGE** (ACCORDING TO RoHS).

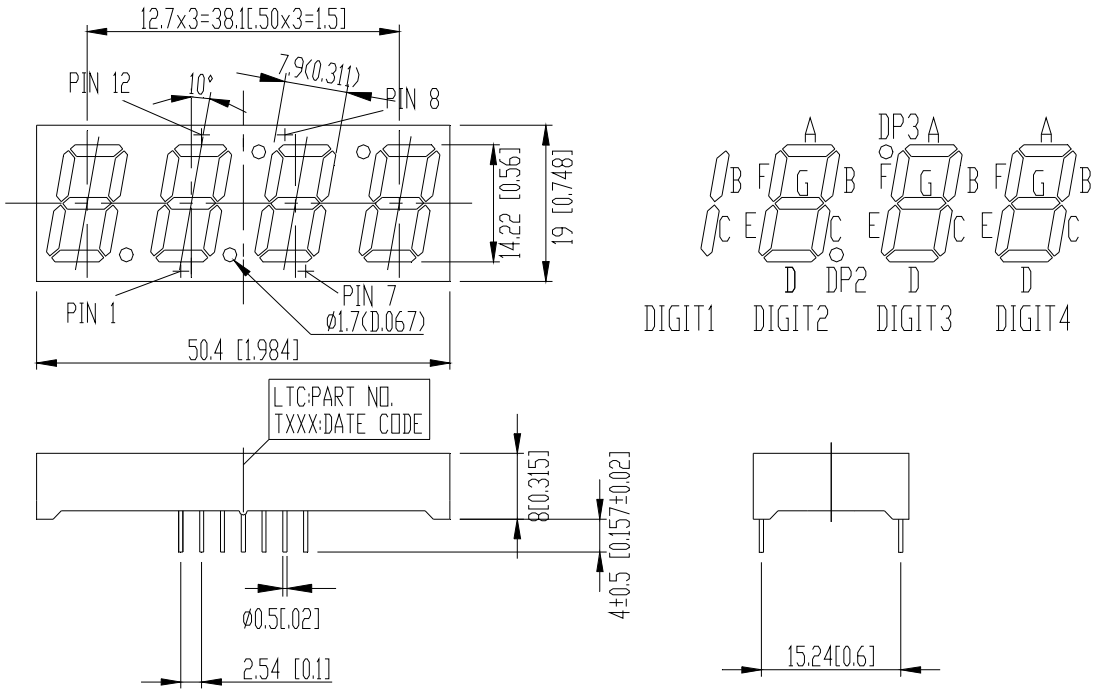
DESCRIPTION

The LTC-5769G-01J is a 0.56 inch (14.22 mm) height seven-segment display. This device utilizes green LED chips, which are made from GaP on a transparent GaP substrate and SMT epoxy, and has a light gray face and green segments.

DEVICE

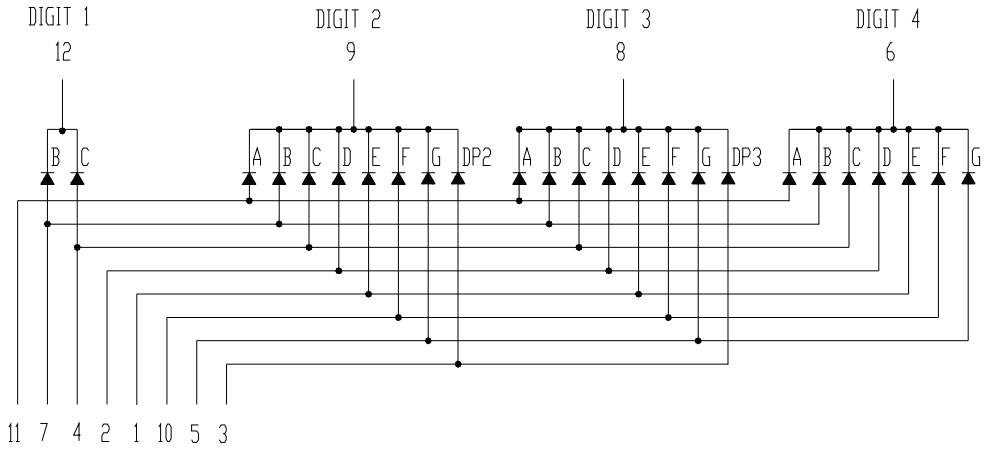
PART NO.	DESCRIPTION
GREEN	Common Cathode
LTC-5769G-01J	R.t Hand Decimal

PACKAGE DIMENSIONS



NOTES: 1.All dimensions are in millimeters. Tolerances are ± 0.25 mm unless otherwise noted.
2.Pin tip's shift tolerance is +/-0.4mm.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	ANODE E
2	ANODE D
3	ANODE D.P.
4	ANODE C
5	ANODE G
6	COMMON CATHODE (DIGIT 4)
7	ANODE B
8	COMMON CATHODE (DIGIT 3)
9	COMMON CATHODE (DIGIT 2)
10	ANODE F
11	ANODE A
12	COMMON CATHODE (DIGIT 1)

ABSOLUTE MAXIMUM RATING

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 Derating Linear From 25^0C Per Segment	25 0.28	mA mA/^{0}C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35^{0}C to +105^{0}C	
Storage Temperature Range	-35^{0}C to +105^{0}C	
Solder Temperature 1/16 inch Below Seating Plane for 5 Seconds at 260^{0}C		

* see figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25^{o}C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2400		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 (Similar Light Area)	I_V-m			2:1		I_F=10mA

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

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

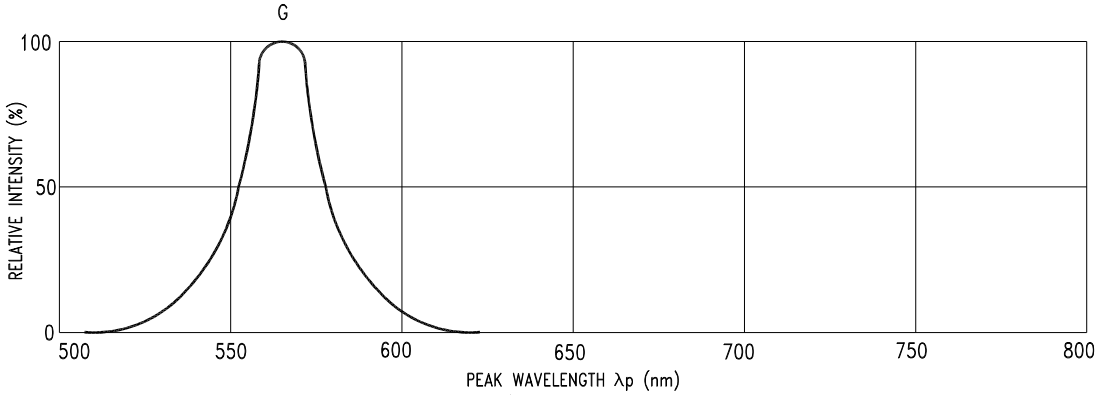


Fig1.Spectral Emission

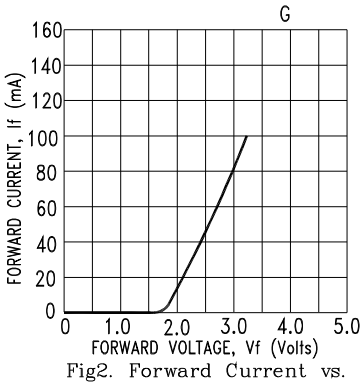


Fig2. Forward Current vs. Forward Voltage

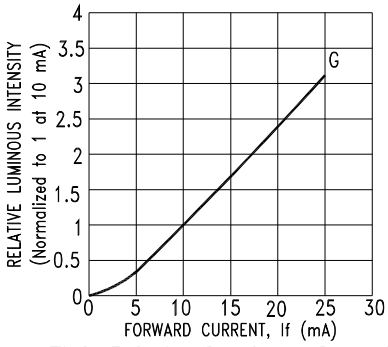


Fig3. Relative Luminous Intensity vs. DC Forward Current

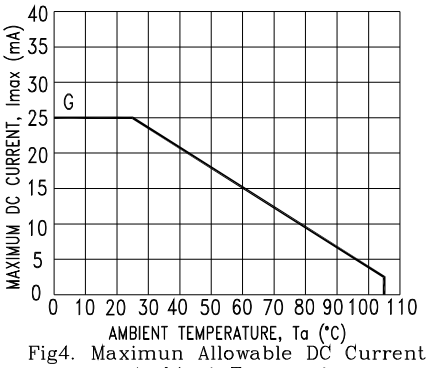


Fig4. Maximun Allowable DC Current vs. Ambient Temperature

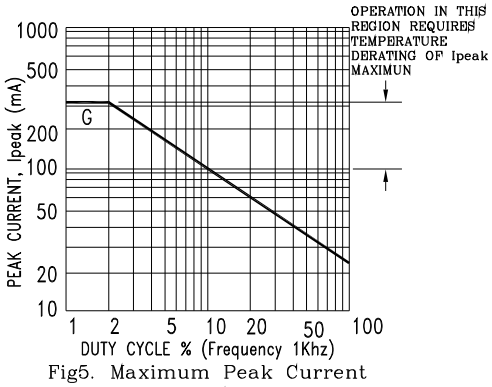


Fig5. Maximum Peak Current vs. Duty Cycle %

NOTE: G=GREEN.