FEATURES

* 0.5 inch (12.7 mm) DIGIT HEIGHT
* CONTINUOUS UNIFORM SEGMENTS
* LOW POWER REQUIREMENT
* EXCELLENT CHARACTERS APPEARANCE
* HIGH BRIGHTNESS & HIGH CONTRAST
* WIDE VIEWING ANGLE
* SOLID STATE RELIABILITY

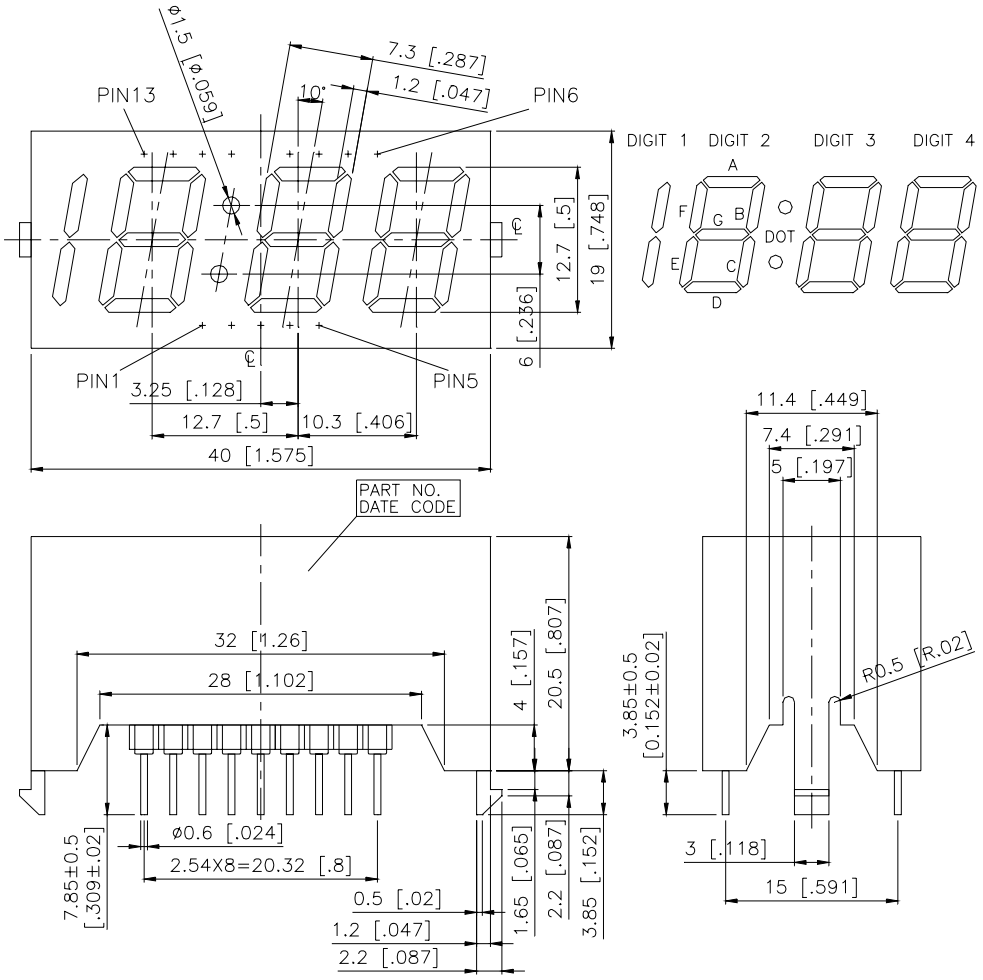
DESCRIPTION

The LTC-5665AG is a 0.5 inch (12.7 mm) digit height quadruple digit seven-segment display. This device uses GREEN LED chips (GaP epi on GaP substrate). The display has a black face and white segments.

DEVICE

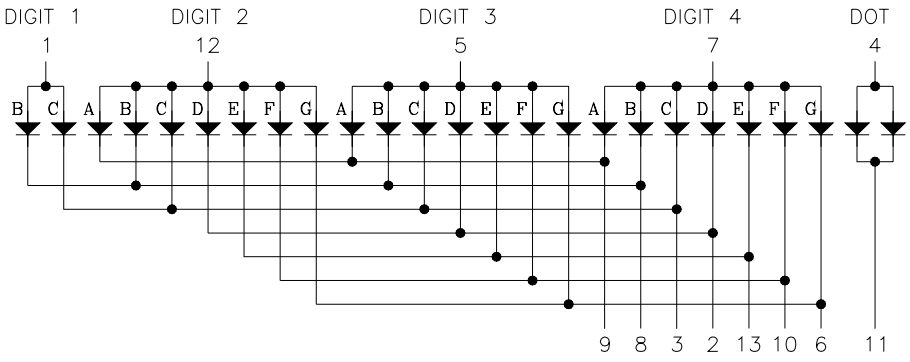
PART NO.	DESCRIPTION
GREEN	Multiplex Common Anode
LTC-5665AG	

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

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

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	100*	mA
Continuous Forward Current Per Segment	25	mA
Forward Current Derating from 25^0C	0.33	mA/^{0}C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35^{0}C to +85^{0}C	
Storage Temperature Range	-35^{0}C to +85^{0}C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260^{0}C		

* see figure 5 to establish pulsed condition

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I_V	800	2200		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'Eclairage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

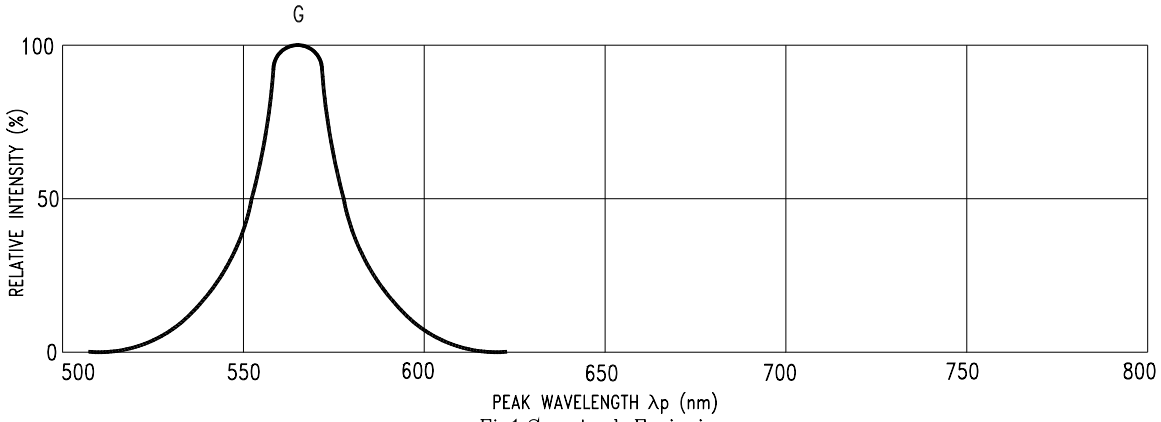


Fig1.Spectral Emission

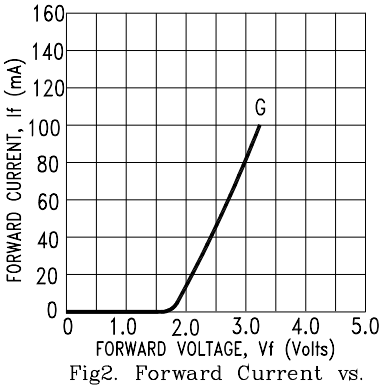


Fig2. Forward Current vs. Forward Voltage

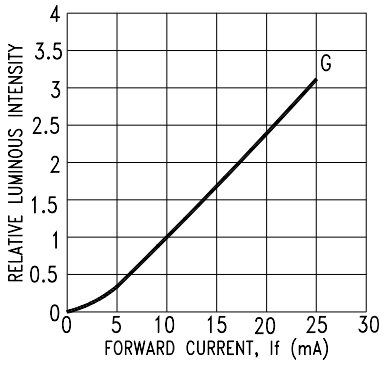


Fig3. Relative Luminous Intensity vs. DC Forward Current

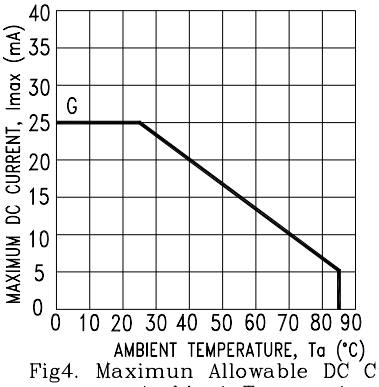


Fig4. Maximun Allowable DC Current vs. Ambient Temperature

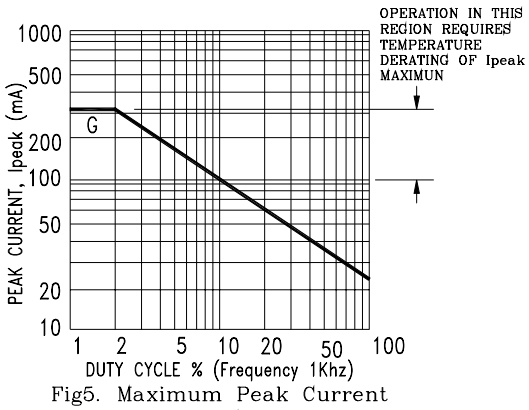


Fig5. Maximum Peak Current vs. Duty Cycle %

NOTE: G=GREEN.