

**FEATURES**

- \* 0.52 inch (13.2 mm) DIGIT HEIGHT
- \* CONTINUOUS UNIFORM SEGMENTS
- \* LOW POWER REQUIREMENT
- \* EXCELLENT CHARACTERS APPEARANCE
- \* HIGH BRIGHTNESS & HIGH CONTRAST
- \* WIDE VIEWING ANGLE
- \* SOLID STATE RELIABILITY
- \* CATEGORIZED FOR LUMINOUS INTENSITY
- \* **LEAD-FREE PACKAGE (ACCORDING TO ROHS)**

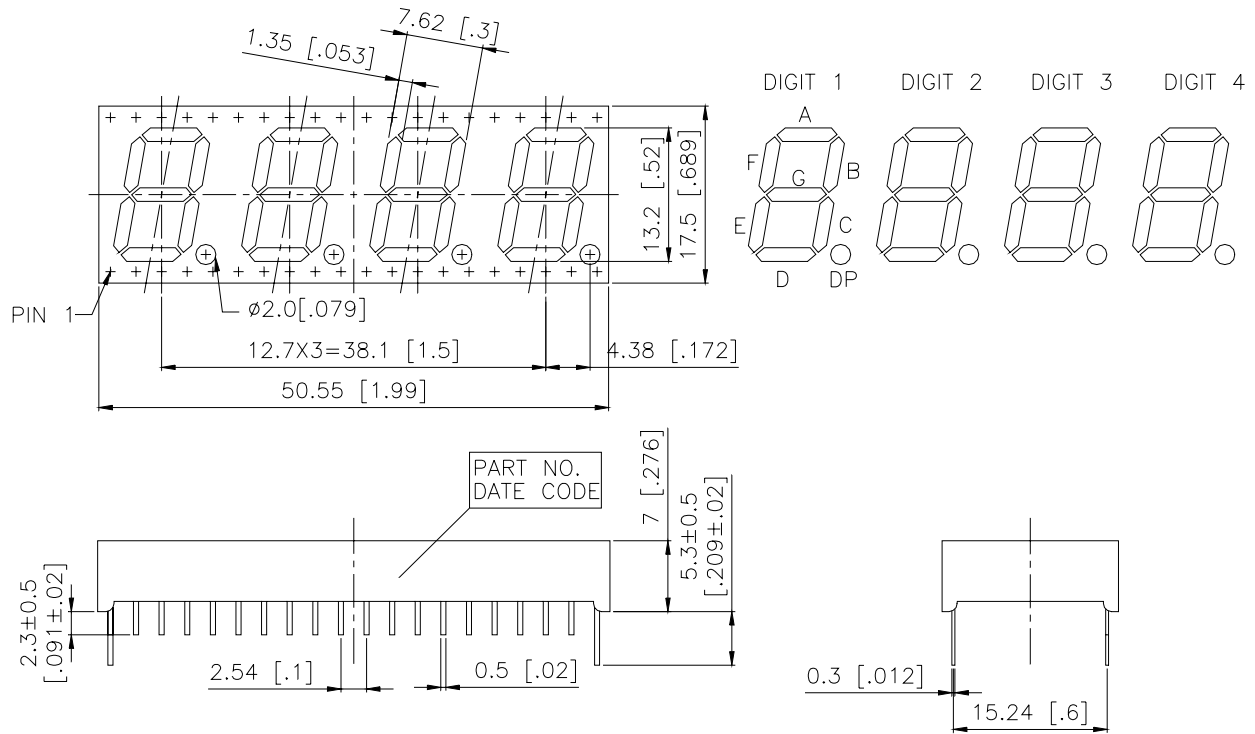
**DESCRIPTION**

The LTC-5675KG is a 0.52 inch (13.2 mm) digit height quadruple digit seven-segment display. This device uses AS-AlInGaP GREEN LED chips( AlInGaP on a non-transparent GaAs substrate). The display has a gray face and white segments.

**DEVICE**

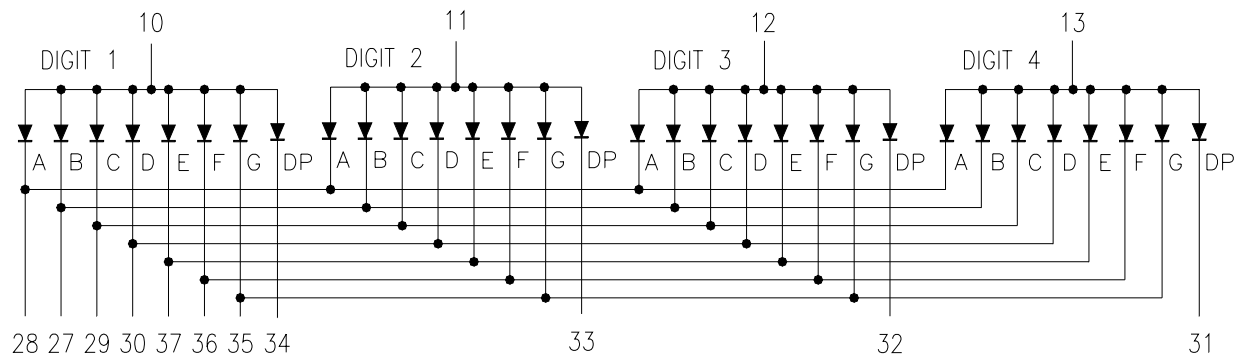
<b>PART NO.</b>	<b>DESCRIPTION</b>
AlInGaP GREEN	Common Anode
LTC-5675KG	Rt. Hand Decimal

## PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are  $\pm 0.25$  mm (0.01") unless otherwise noted.

## INTERNAL CIRCUIT DIAGRAM



**PIN CONNECTION**

<b>NO.</b>	<b>CONNECTION</b>	<b>NO.</b>	<b>CONNECTION</b>
1	NO CONNECTION	21	NO CONNECTION
2	NO CONNECTION	22	NO CONNECTION
3	NO CONNECTION	23	NO CONNECTION
4	NO CONNECTION	24	NO CONNECTION
5	NO CONNECTION	25	NO CONNECTION
6	NO CONNECTION	26	NO CONNECTION
7	NO CONNECTION	27	CATHODE B
8	NO CONNECTION	28	CATHODE A
9	NO CONNECTION	29	CATHODE C
10	COMMON ANODE DIGIT 1	30	CATHODE D
11	COMMON ANODE DIGIT 2	31	CATHODE DP (DIGIT 4)
12	COMMON ANODE DIGIT 3	32	CATHODE DP (DIGIT 3)
13	COMMON ANODE DIGIT 4	33	CATHODE DP (DIGIT 2)
14	NO CONNECTION	34	CATHODE DP (DIGIT 1)
15	NO CONNECTION	35	CATHODE G
16	NO CONNECTION	36	CATHODE F
17	NO CONNECTION	37	CATHODE E
18	NO CONNECTION	38	NO CONNECTION
19	NO CONNECTION	39	NO CONNECTION
20	NO CONNECTION	40	NO CONNECTION

**ABSOLUTE MAXIMUM RATING**

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 25% duty cycle)	60	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25 <sup>0</sup> C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Soldering Conditions: 1/16 inch below eating plane for 3 seconds at 260 <sup>0</sup> C		

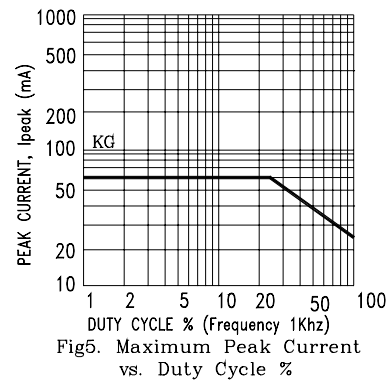
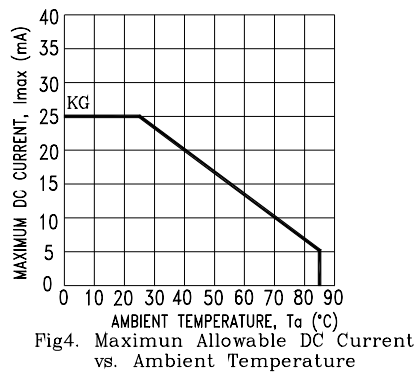
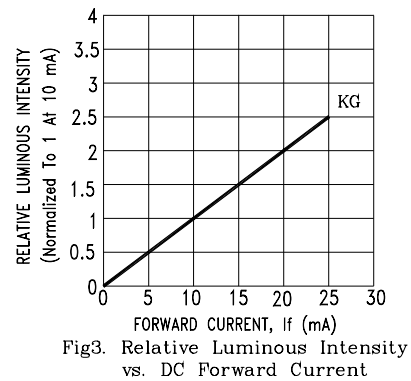
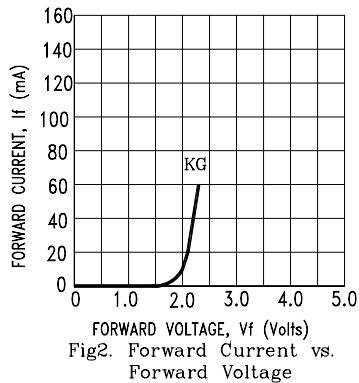
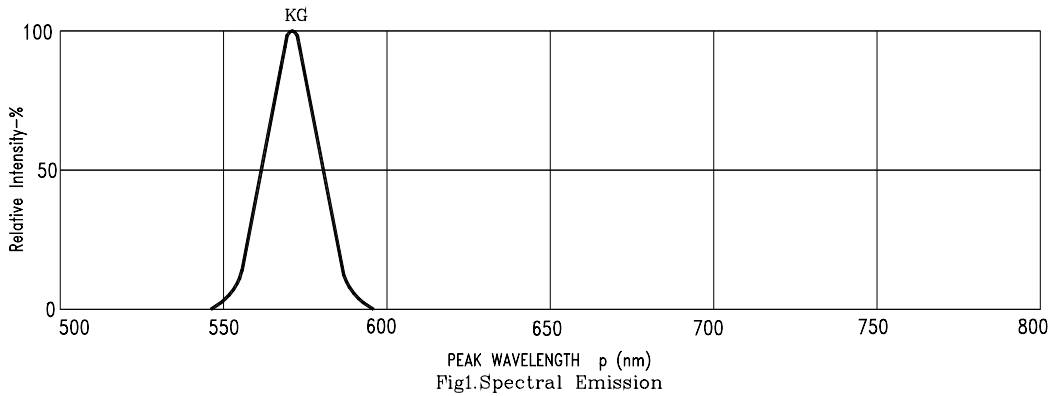
**ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I <sub>v</sub>	320	1050 11550		μcd	I <sub>F</sub> =1mA I <sub>F</sub> =10mA
Peak Emission Wavelength	λ <sub>p</sub>		571		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		15		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		572		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	V <sub>F</sub>		2.1	2.6	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio Similar Light Area	I <sub>v-m</sub>			2:1		I <sub>F</sub> =1mA

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 : KG=AlInGaP Green