



LED Display

Product Data Sheet

LTC-5675KG

Spec No.: DS30-2005-137

Effective Date: 07/01/2005

Revision: -

LITE-ON DCC

RELEASE

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)

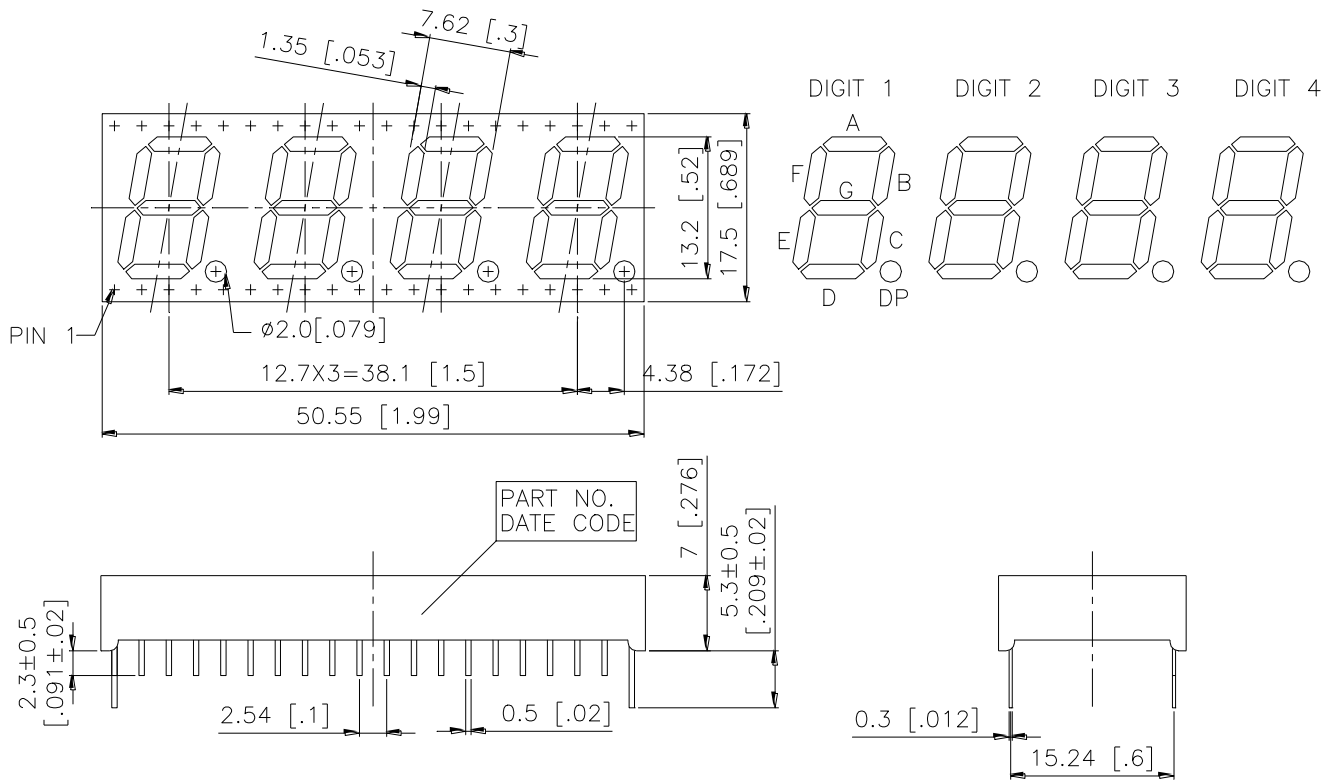
DESCRIPTION

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

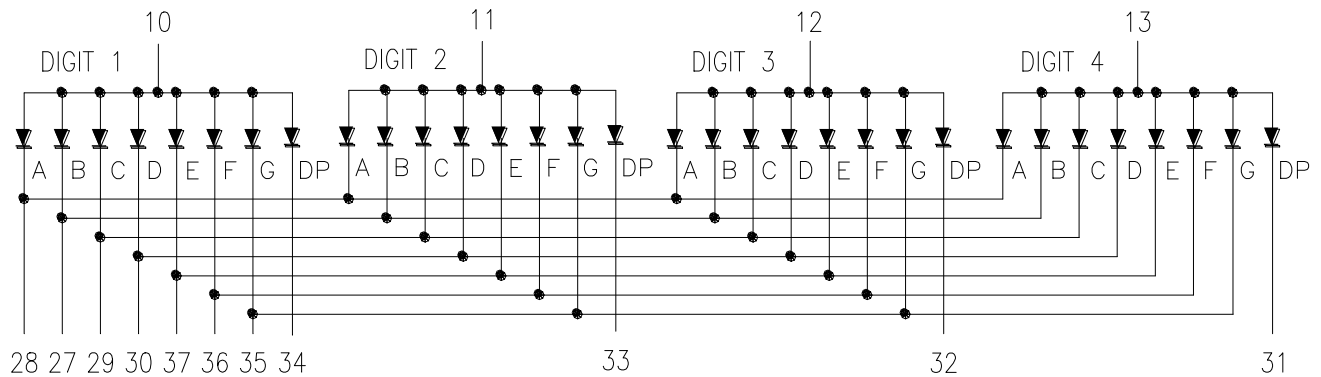
PART NO.	DESCRIPTION
AlInGaP GREEN	Common Anode Rt. Hand Decimal
LTC-5675KG	

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	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 ⁰ 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 ⁰ C		

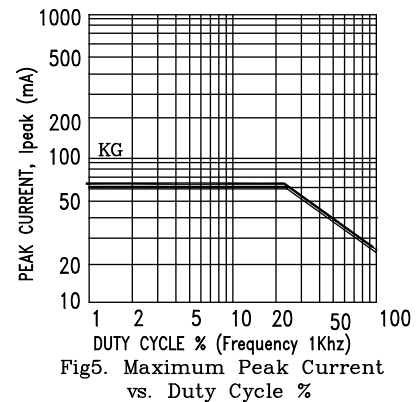
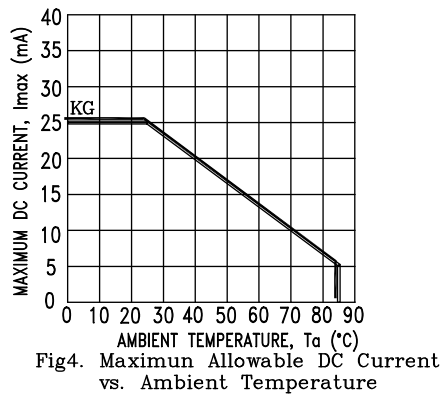
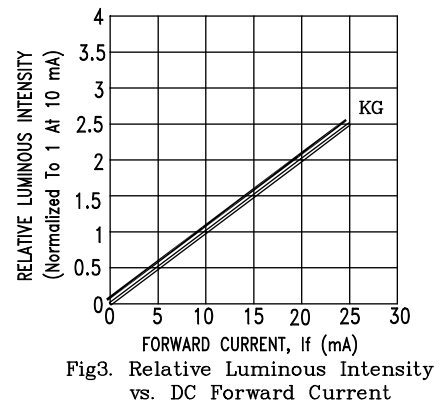
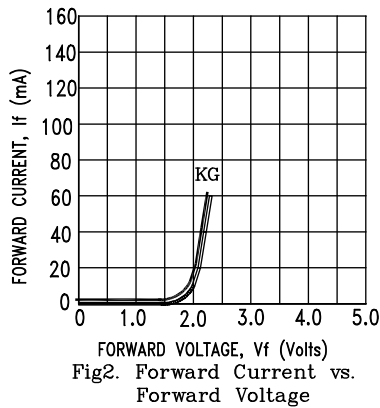
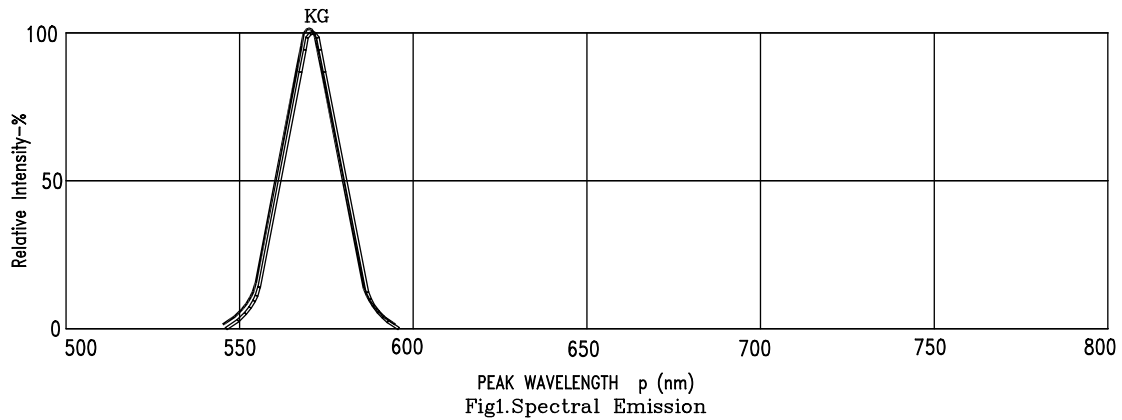
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	320	1050 11550		μcd	I _F =1mA I _F =10mA
Peak Emission Wavelength	λ _p		571		nm	I _F =20mA
Spectral Line Half-Width	Δλ		15		nm	I _F =20mA
Dominant Wavelength	λ _d		572		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 =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