



# LED Display Product Data Sheet LTC-5674JG

Spec No.: DS30-2004-252

Effective Date: 10/29/2004

Revision: -

**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4

**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**

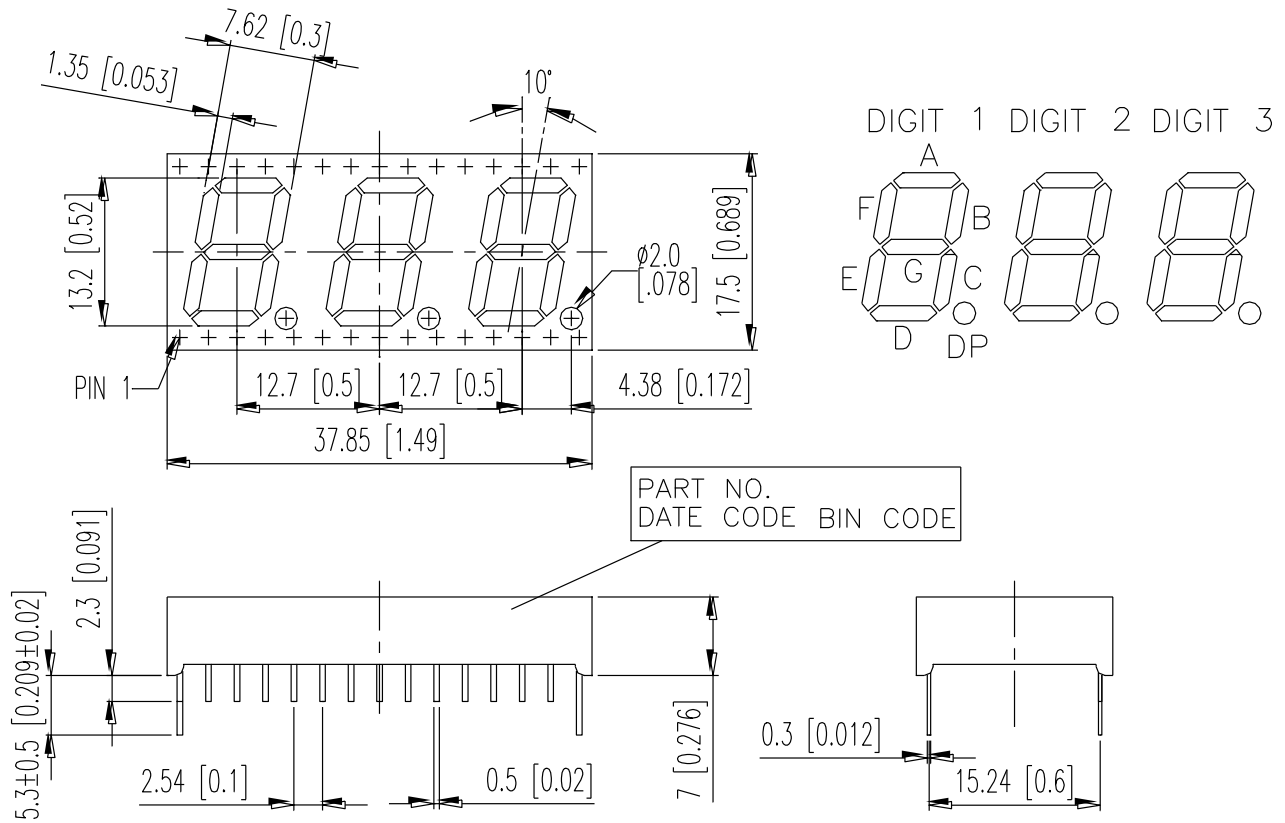
**DESCRIPTION**

The LTC-5674JG is a 0.52 inch ( 13.2 mm) digit height triple LED display. This device uses AS-AllnGaP GREEN LED chips( AllnGaP on a non-transparent GaAs substrate).The display has gray face and white segments.

**DEVICE**

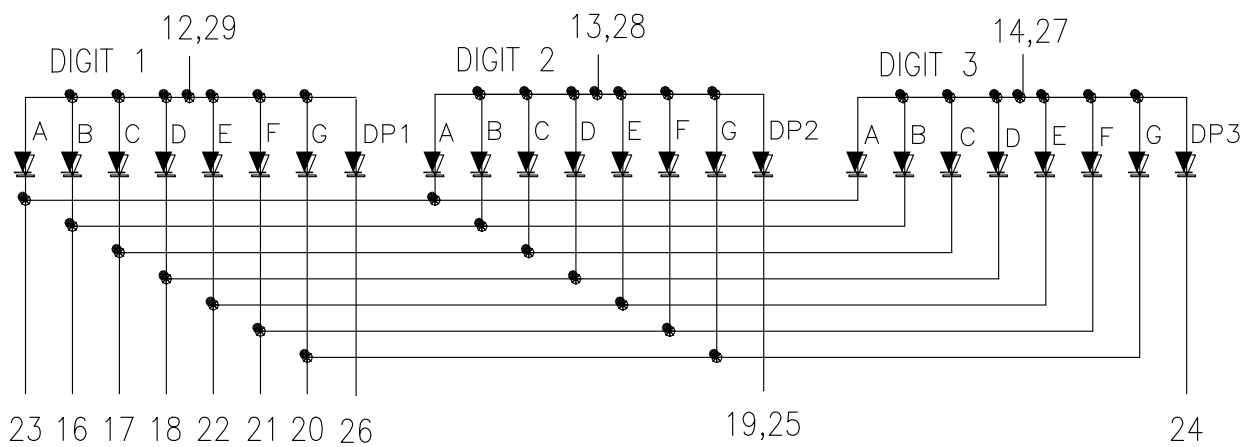
<b>PART NO.</b>	<b>DESCRIPTION</b>
AllnGaP GREEN	Common Anode
LTC-5674JG	Rt. Hand Decimal

## PACKAGE DIMENSIONS



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

## INTERNAL CIRCUIT DIAGRAM



**PIN CONNECTION**

NO.	CONNECTION	NO.	CONNECTION
1	NO CONNECTION	16	CATHODE B
2	NO CONNECTION	17	CATHODE C
3	NO CONNECTION	18	CATHODE D
4	NO CONNECTION	19	CATHODE DP (DIGIT 2)
5	NO CONNECTION	20	CATHODE G
6	NO CONNECTION	21	CATHODE F
7	NO CONNECTION	22	CATHODE E
8	NO CONNECTION	23	CATHODE A
9	NO CONNECTION	24	CATHODE DP (DIGIT 3)
10	NO CONNECTION	25	CATHODE DP (DIGIT 2)
11	NO CONNECTION	26	CATHODE DP (DIGIT 1)
12	COMMON ANODE DIGIT 1	27	COMMON ANODE DIGIT 3
13	COMMON ANODE DIGIT 2	28	COMMON ANODE DIGIT 2
14	COMMON ANODE DIGIT 3	29	COMMON ANODE DIGIT 1
15	NO CONNECTION	30	NO CONNECTION

**ABSOLUTE MAXIMUM RATING**

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment ( Frequency 1Khz, 10% duty cycle)	60	mA
Continuous Forward Current Per Segment	25	mA
Forward Current Derating from 25 <sup>0</sup> C	0.33	mA/ <sup>0</sup> C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 <sup>0</sup> C to +85 <sup>0</sup> C	
Storage Temperature Range	-35 <sup>0</sup> C to +85 <sup>0</sup> C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 <sup>0</sup> C		

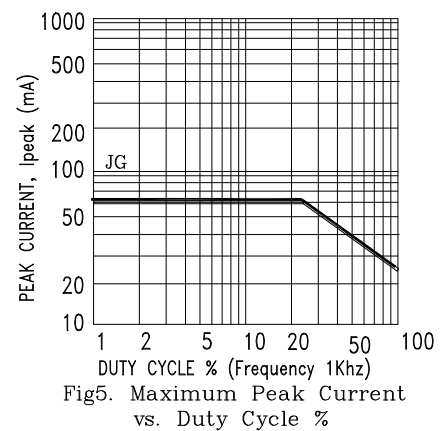
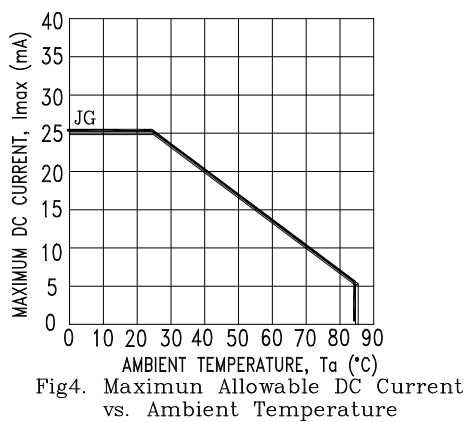
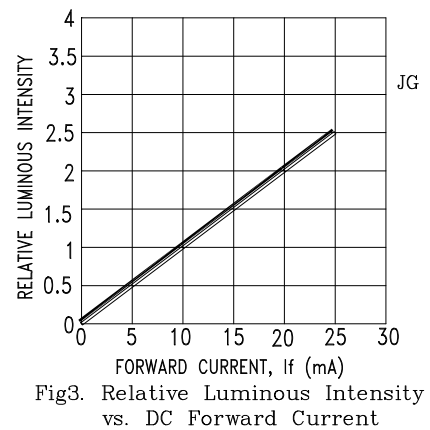
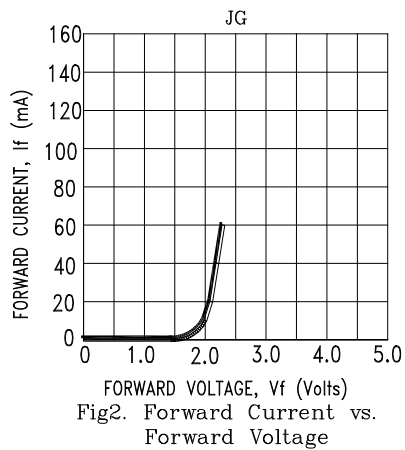
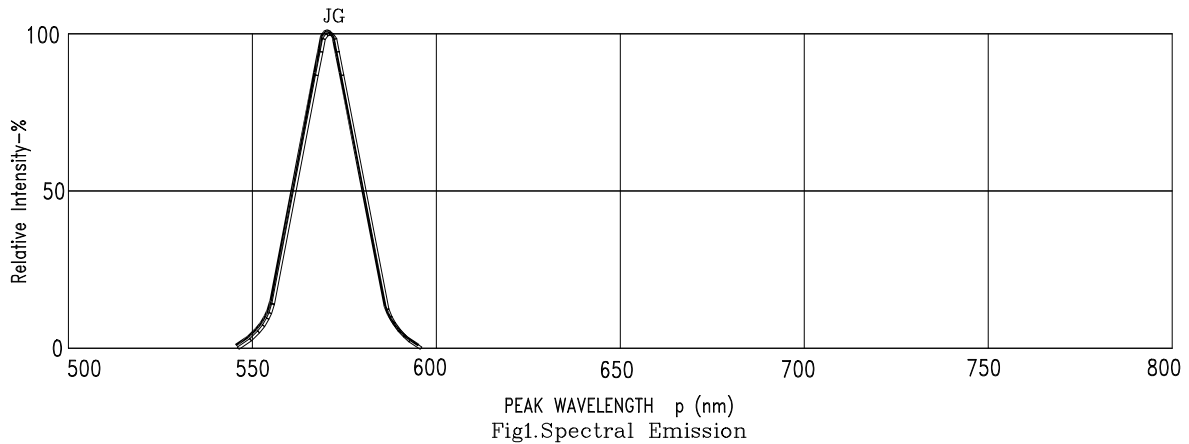
**ELECTRICAL / OPTICAL CHARACTERISTICS**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I <sub>v</sub>	200	577		μcd	I <sub>F</sub> =1mA
			6346		μcd	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	I <sub>v</sub> -m			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 : JG=AlInGaP Green