



LED Display Product Data Sheet LTC-3743KG

Spec No.: DS30-2009-0001

Effective Date: 03/19/2009

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

FEATURES

- * 0.3 inch (7.4 mm) DIGIT HEIGHT
- * CONTINUOUS UNIFORM SEGMENTS
- * LOW POWER REQUIREMEN
- * EXCELLENT CHARACTERS APPEARANCE
- * HIGH BRIGHTNESS & HIGH CONTRAST
- * WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY
- * **LEAD-FREE PACKAGE(ACCORDING TO ROHS)**

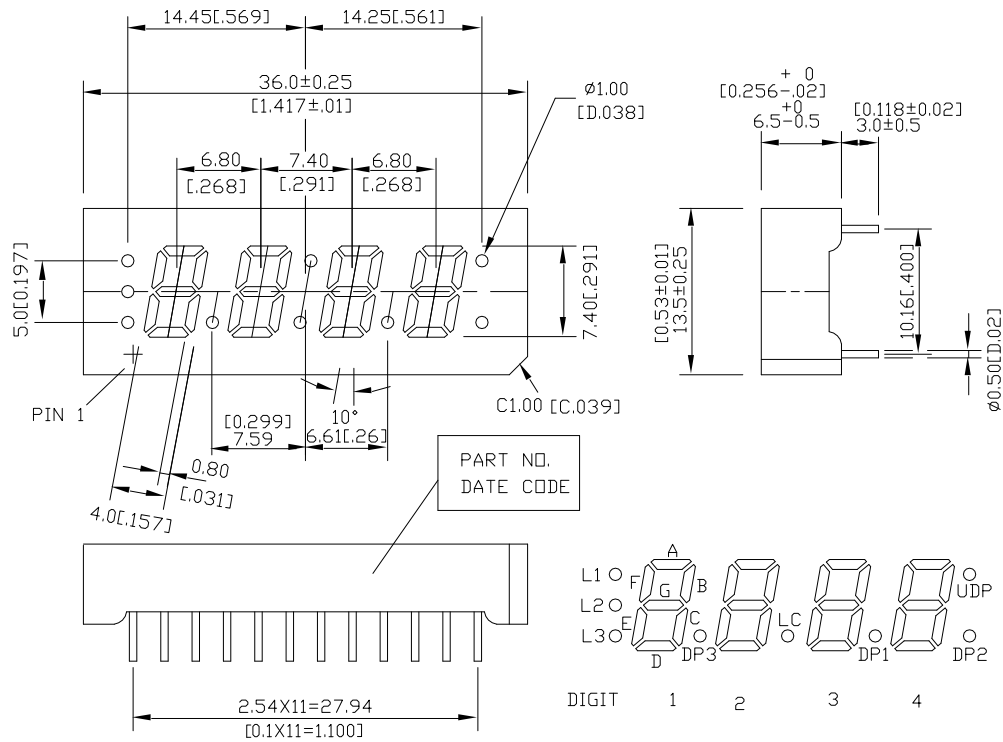
DESCRIPTION

The LTC-3743KG is a 0.3 inch (7.4 mm) digit height quadruple display. This device utilizes AlInGaP Green LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a black face and white segments.

DEVICE

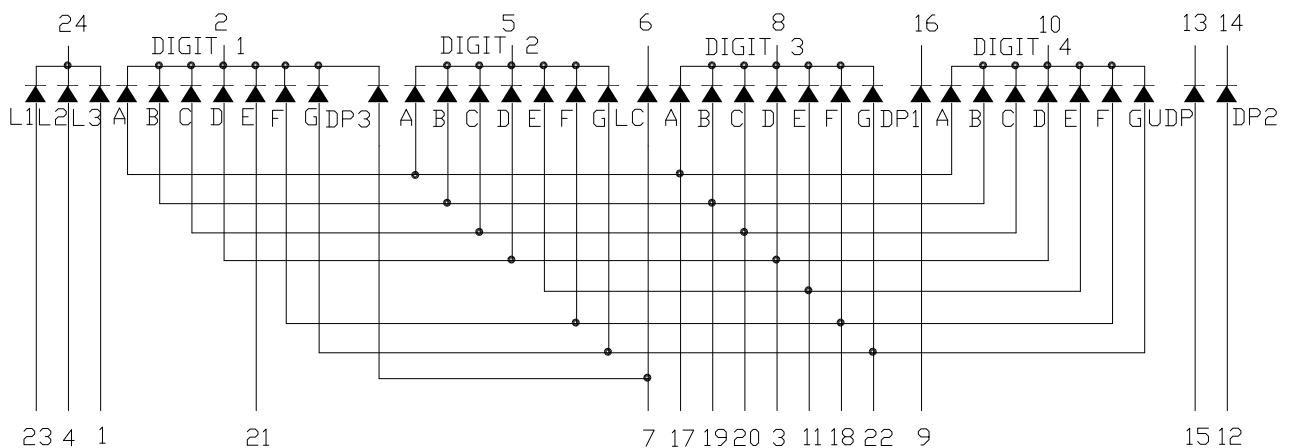
PART NO.	DESCRIPTION
GREEN	Multiplex Common Cathode
LTC-3743KG	Rt. Hand Decimal

PACKAGE DIMENSIONS



NOTES: 1). All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.
 2). Pin tip's shift tolerance is ± 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO.	CONNECTION	NO.	CONNECTION
1.	ANODE L3	13.	CATHODE UDP
2.	CATHODE (DIGIT 1&DP3)	14.	CATHODE DP2
3.	ANODE D	15.	ANODE UDP
4.	ANODE L2	16.	CATHODE DP1
5.	CATHODE (DIGIT 2)	17.	ANODE A
6.	CATHODE LC	18.	ANODE F
7.	ANODE LC & DP3	19.	ANODE B
8.	CATHODE (DIGIT 3)	20.	ANODE C
9.	ANODE DP1	21.	ANODE 1E
10.	CATHODE (DIGIT 4)	22.	ANODE G
11.	ANODE E	23.	ANODE L1
12.	ANODE DP2	24.	CATHODE L1,L2,L3

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
Derating Linear From 25°C Per Segment	0.28	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +105°C	
Storage Temperature Range	-35°C to +105°C	
Solder Temperature: max 260°C for max 5sec at 1.6mm below seating plane.		

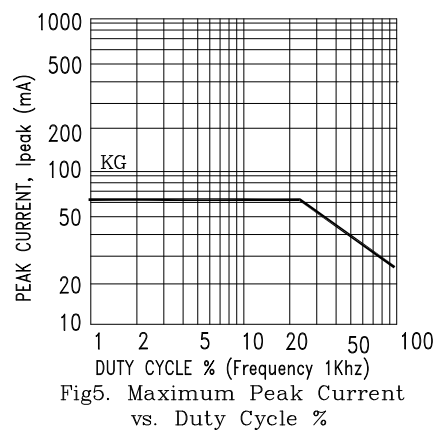
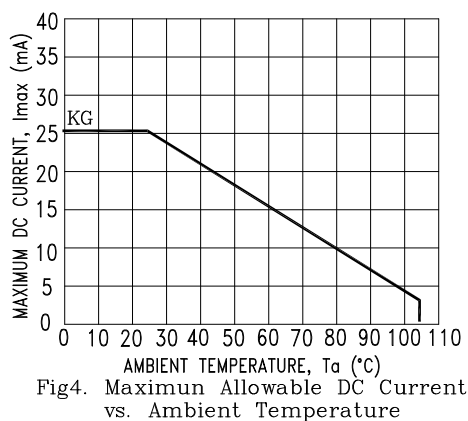
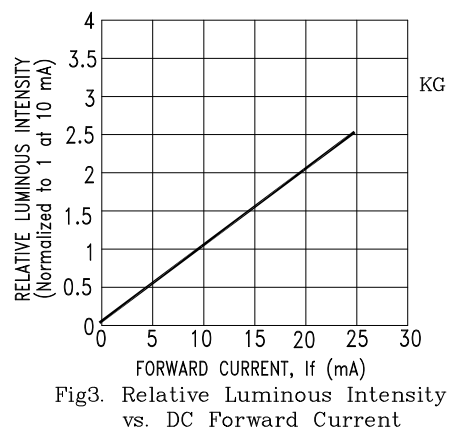
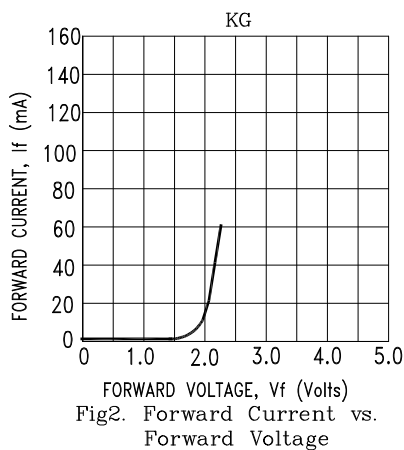
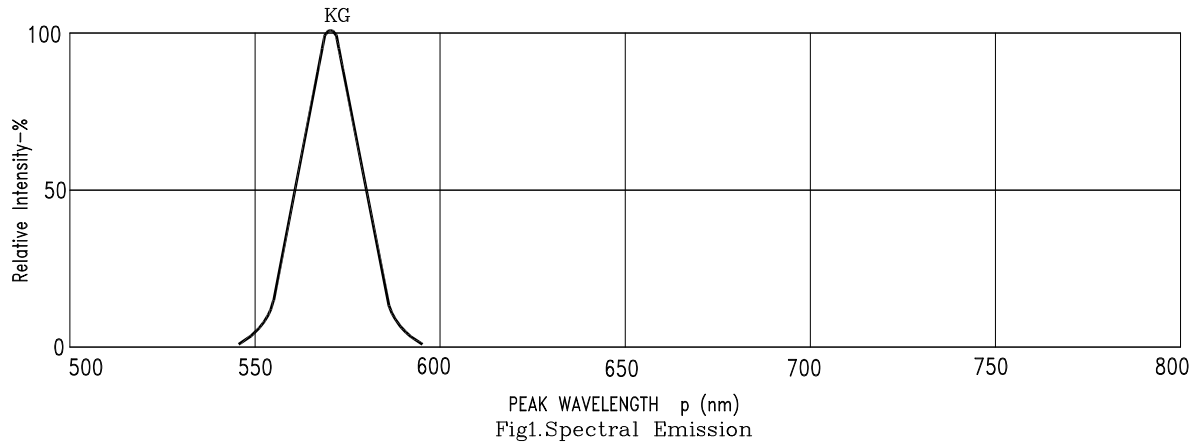
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	200	630		μcd	I _F =1mA
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		2.05	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