

FEATURES

- * 0.72 inch (18.4 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

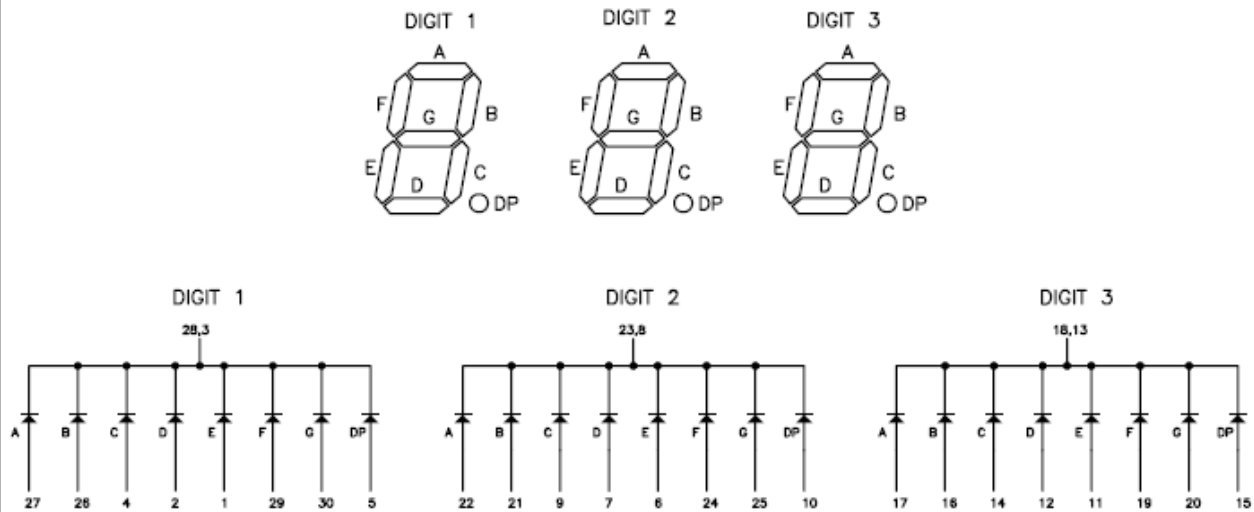
The LTC-7500KG is a 0.72 inch (18.4mm) digit height triple digit seven-segment display. This device uses AS-AlInGaP Green LED chips (AS-AlInGaP epi on GaAs substrate). The display has a black face and white segments.


DEVICE

PART NO.	DESCRIPTION
AlInGaP Green	Multiplex Common Cathode
LTC-7500KG	Rt. Hand Decimal

Property of LITE-ON Only

INTERNAL CIRCUIT DIAGRAM



THE SIGN "  " STANDS FOR AllInGaP GREEN CHIPS.

PIN CONNECTION

NO	CONNECTION
1	ANODE E1
2	ANODE D1
3	COMMON CATHODE DIGIT 1
4	ANODE C1
5	ANODE DP1
6	ANODE E2
7	ANODE D2
8	COMMON CATHODE DIGIT 2
9	ANODE C2
10	ANODE DP2
11	ANODE E3

	12	ANODE D3	
	13	COMMON CATHODE DIGIT 3	
	14	ANODE C3	
	15	ANODE DP3	
	16	ANODE B3	
	17	ANODE A3	
	18	COMMON CATHODE DIGIT 3	
	19	ANODE F3	
	20	ANODE G3	
	21	ANODE B2	
	22	ANODE A2	
	23	COMMON CATHODE DIGIT 2	
	24	ANODE F2	
	25	ANODE G2	
	26	ANODE B1	
	27	ANODE A1	
	28	COMMON CATHODE DIGIT 1	
	29	ANODE F1	
	30	ANODE G1	

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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
Average Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +105°C	
Storage Temperature Range	-35°C to +105°C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260°C		

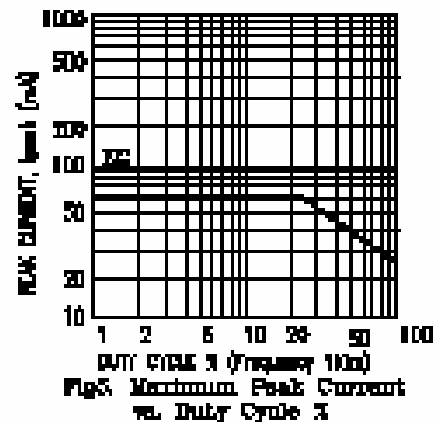
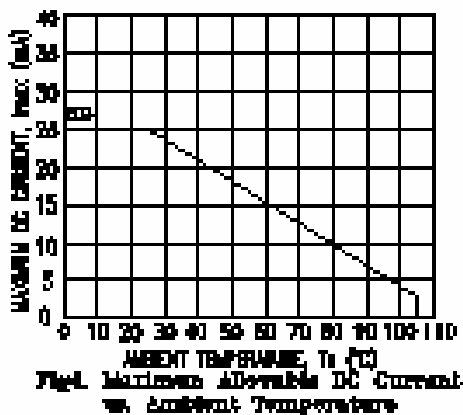
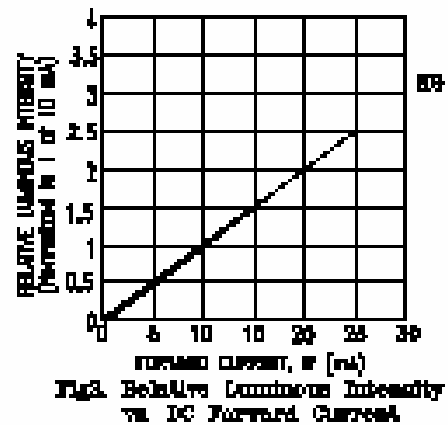
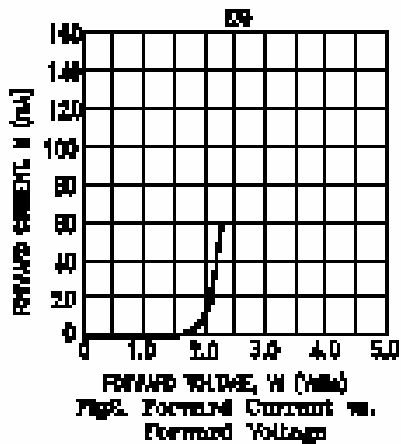
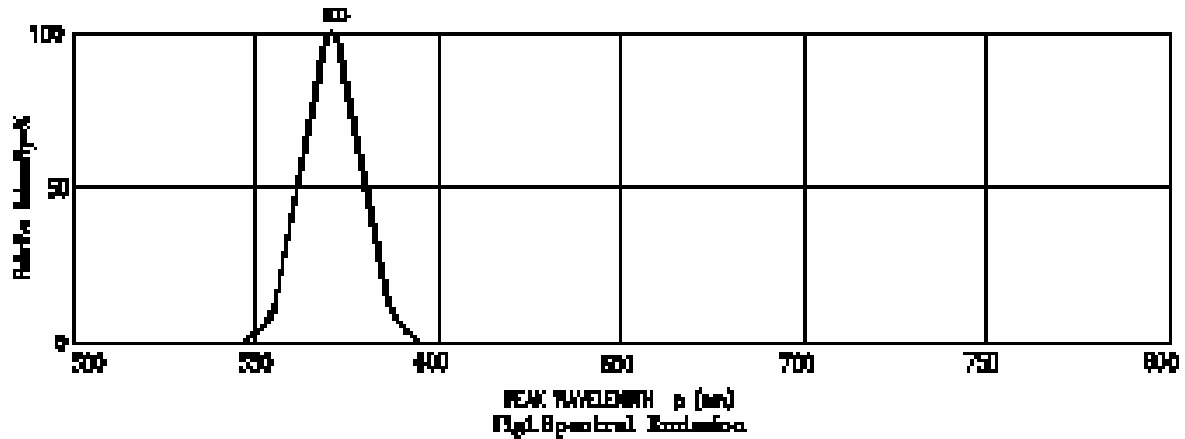
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	500	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		2.05	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 : ED=AlInGaP Green