



LED Display

Product Data Sheet

LTC-5673KR-03

Spec No.: DS30-2003-245

Effective Date: 11/24/2003

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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FEATURES

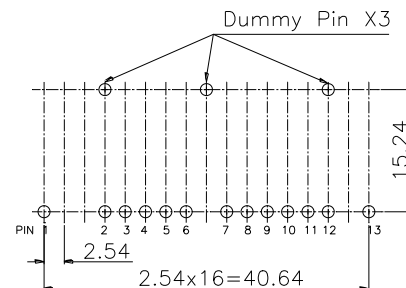
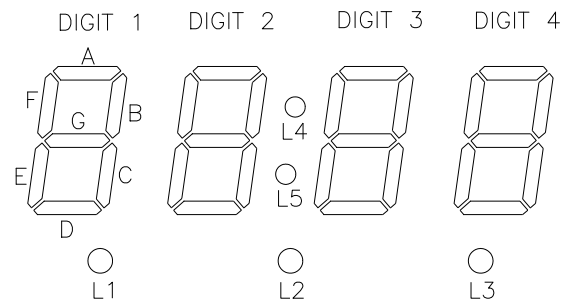
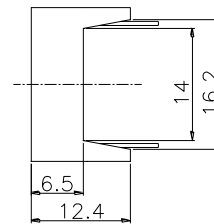
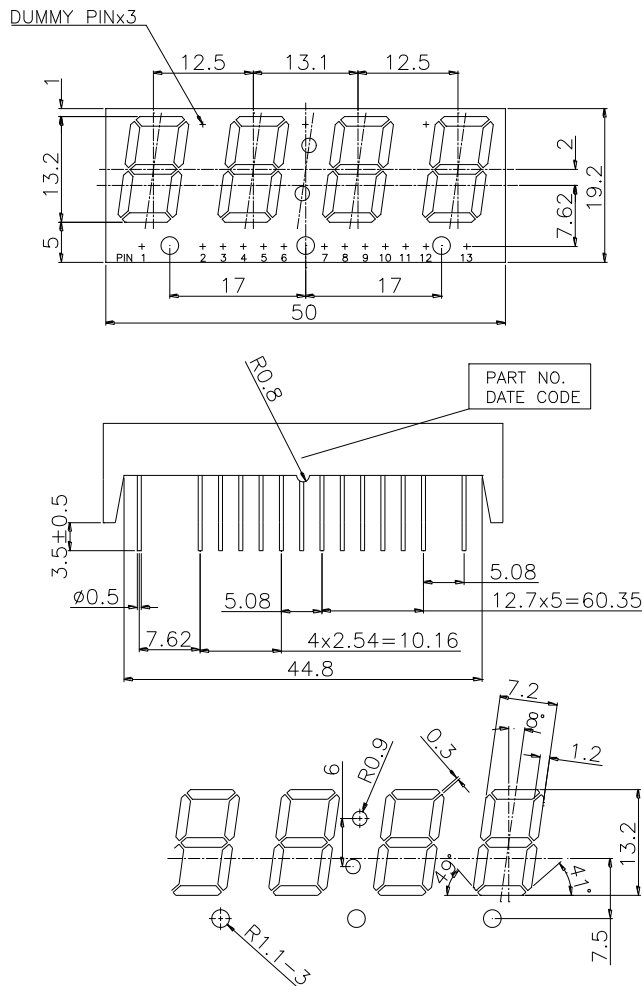
- * 0.52 inch (13.2 mm) DIGIT HEIGHT
- * EXCELLENT SEGMENT UNIFORMITY
- * LOW POWER REQUIREMENT
- * HIGH BRIGHTNESS AND HIGH CONTRAST
- * WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY

DESCRIPTION

The LTC-5673KR-03 is a 0.52 inch (13.2 mm) digit height quad digit seven-segment display. This device uses AS-AlInGaP SUPER RED LED chips (AlInGaP epi on GaAs substrate), and has a black face and red segments.

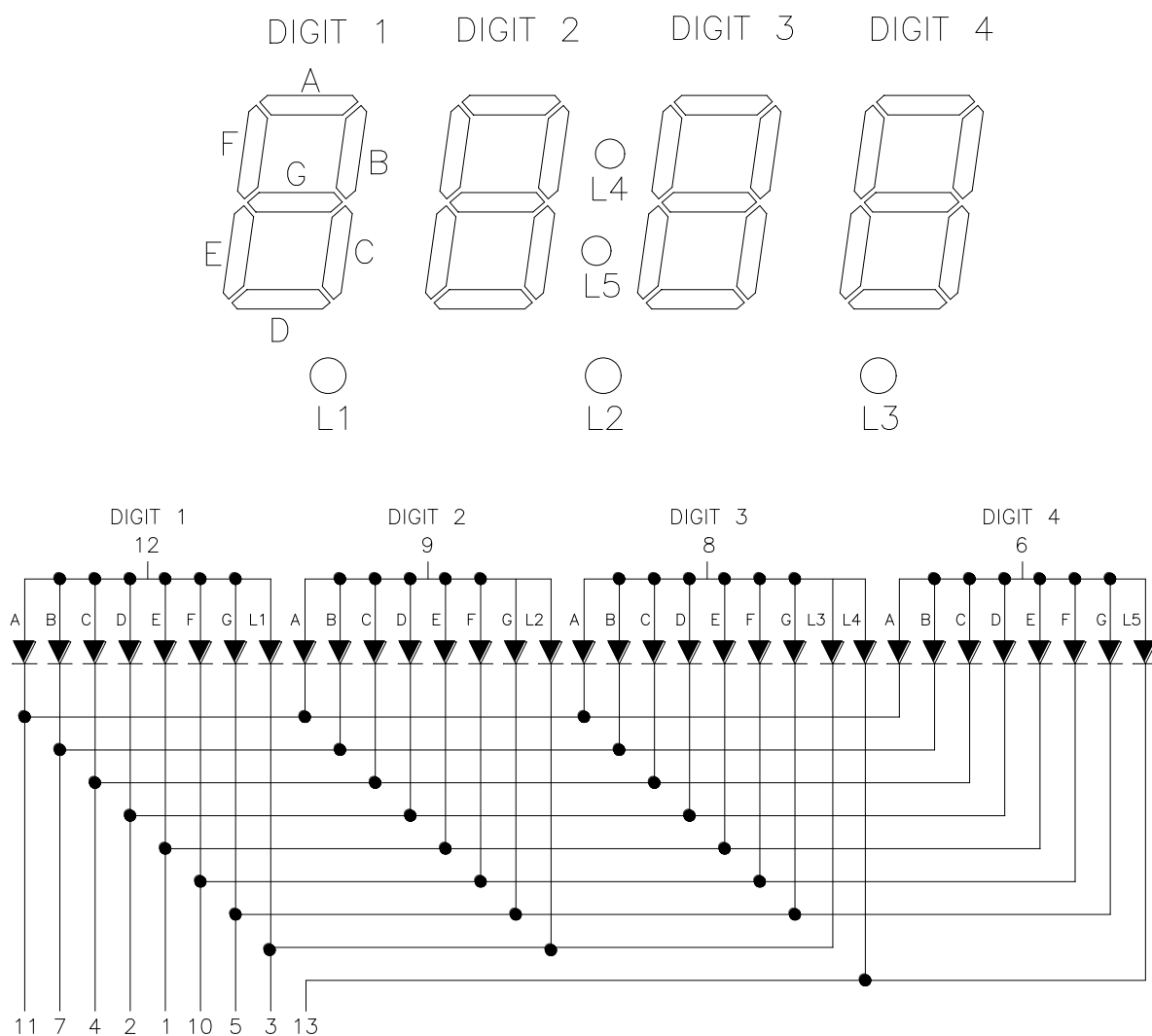
DEVICE

PART NO.	DESCRIPTION
AlInGaP SUPER RED	Multiplex Common Anode
LTC-5673KR-03	

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
1	Cathode E (Digit 1 ~ 4)
2	Cathode D (Digit 1 ~ 4)
3	Cathode L1 , L2 , L3
4	Cathode C (Digit 1 ~ 4)
5	Cathode G (Digit 1 ~ 4)
6	Common Anode Digit 4 , L5
7	Cathode B (Digit 1 ~ 4)
8	Common Anode Digit 3 , L3 ,L4
9	Common Anode Digit 2 , L2
10	Cathode F (Digit 1 ~ 4)
11	Cathode A (Digit 1 ~ 4)
12	Common Anode Digit 1 , L1
13	Cathode L4 , L5

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	90	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 3sec 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	320	1050		μcd	I _F =1mA
Peak Emission Wavelength	λ _p		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λ _d		631		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.0	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio	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)

