



LED Display Product Data Sheet LTF-2502KR

Spec No.: DS30-2011-0210

Effective Date: 12/16/2011

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LED DISPLAY**LTF-2502KR****DATA SHEET**

ITEM	DESCRIPTION	ISSUER	DATE
1	New Spec.	Eason Lin	2011/09/28

FEATURES

- * 0.26 inch (6.8 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).**

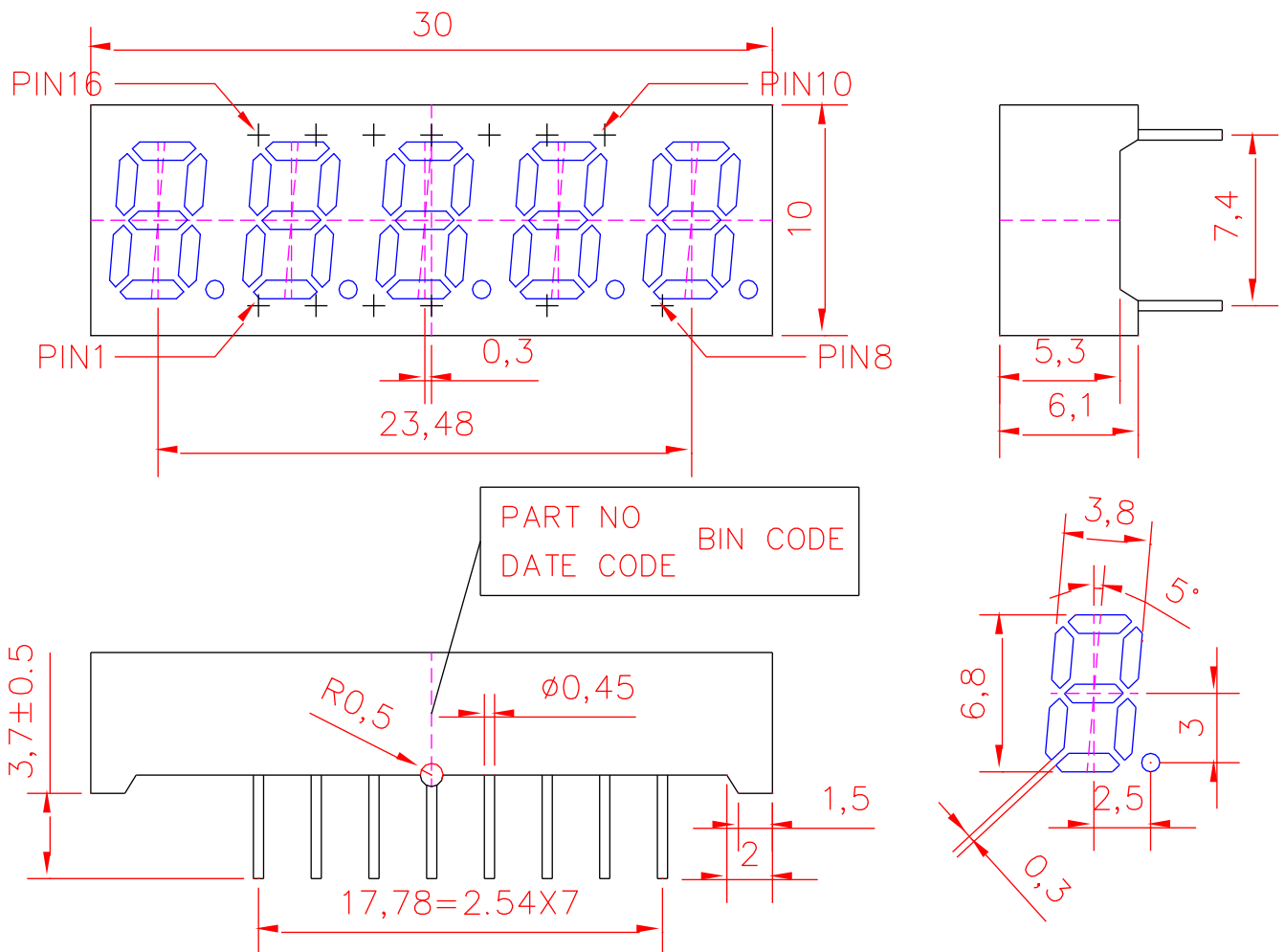
DESCRIPTION

The LTF-2502KR is a 0.26inch (6.8mm) digit height five digit seven-segment display. This device uses AS-AlInGaP Super RED LED chips (AlInGaP epi on GaAs substrate). The display has a black face and white segments.

DEVICE

PART NO.	DESCRIPTION
AlInGaP Supper Red	Multiplex Common Anode
LTF-2502KR	Rt. Hand Decimal

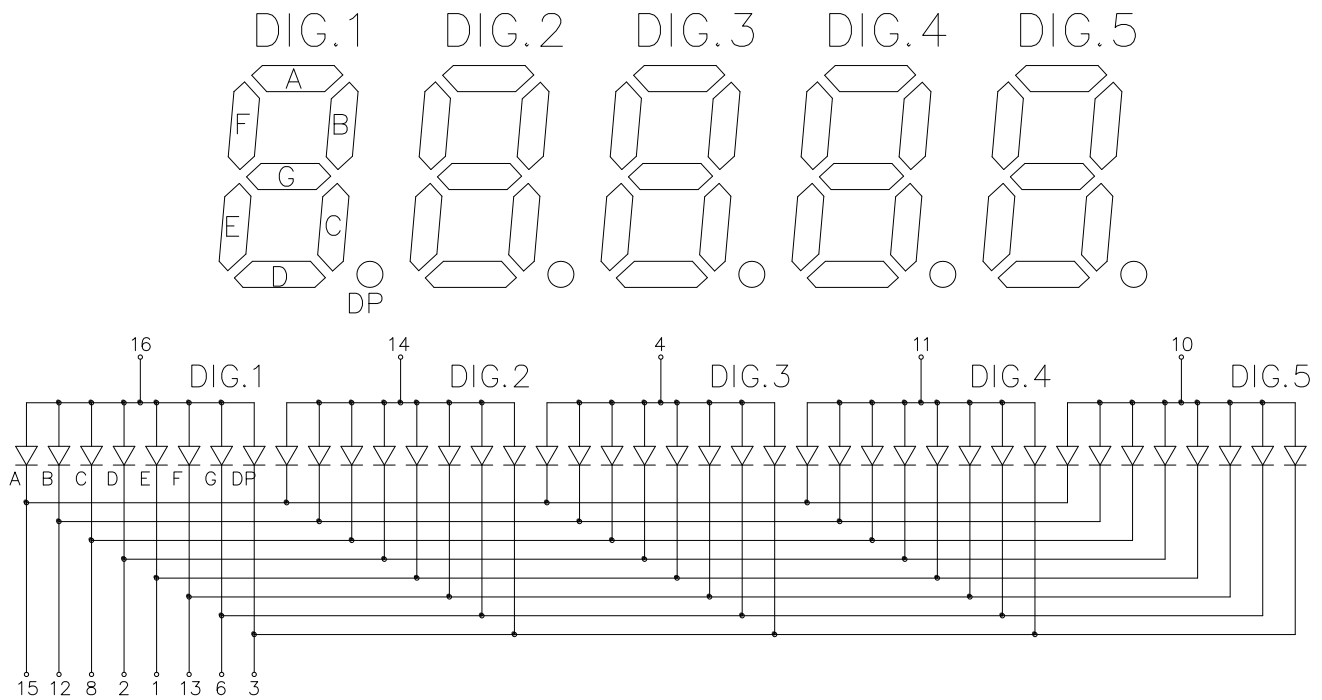
PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters. Tolerance are ± 0.25 mm (0.01") unless otherwise noted.
2. Pin tip's shift tolerance is ± 0.4 mm.
3. Device bending less than 1/100 total length.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO	CONNECTION	NO	CONNECTION
1	CATHODE E	9	NO PIN
2	CATHODE D	10	COMMON ANODE DIG.5
3	CATHODE DP	11	COMMON ANODE DIG.4
4	COMMON ANODE DIG.3	12	CATHODE B
5	NO PIN	13	CATHODE F
6	CATHODE G	14	COMMON ANODE DIG.2
7	NO PIN	15	CATHODE A
8	CATHODE C	16	COMMON ANODE DIG.1

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
Forward Current Derating from 25°C	0.33	mA/°C
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +105°C	
Soldering Conditions : 1/16 inch below seating plane for 5 seconds at 260°C		

Bin range distribution

Bin	F	G	H	J	K
Min.	321	501	801	1301	2101
Max.	500	800	1300	2100	3400

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

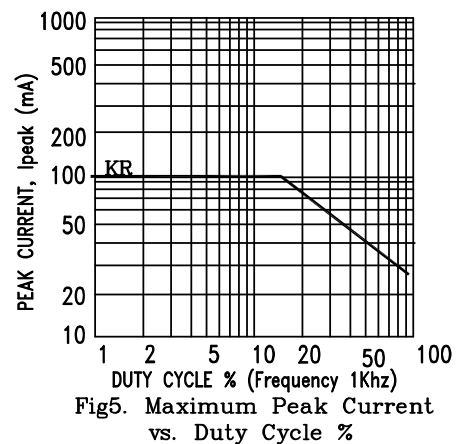
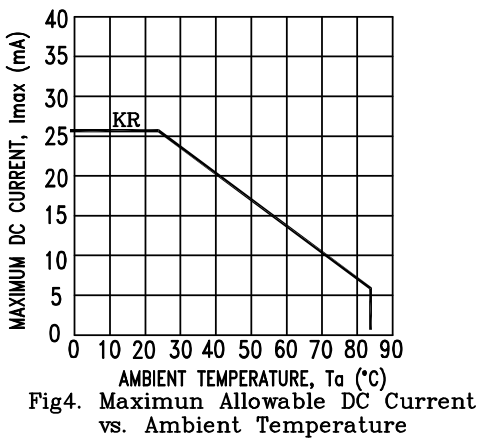
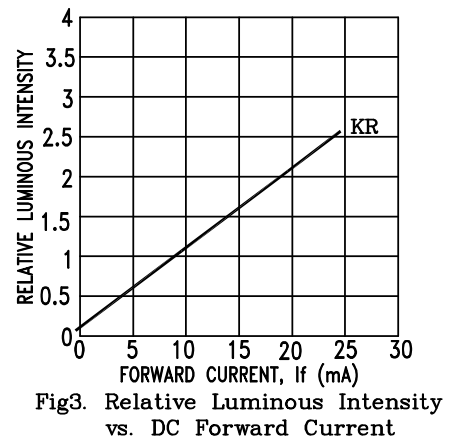
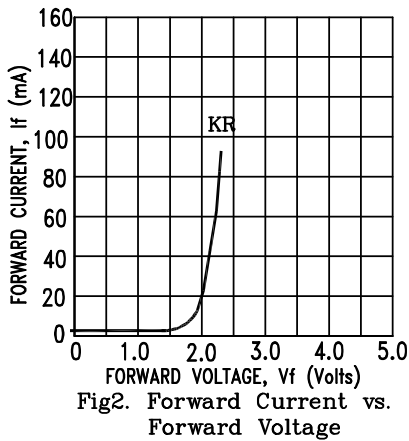
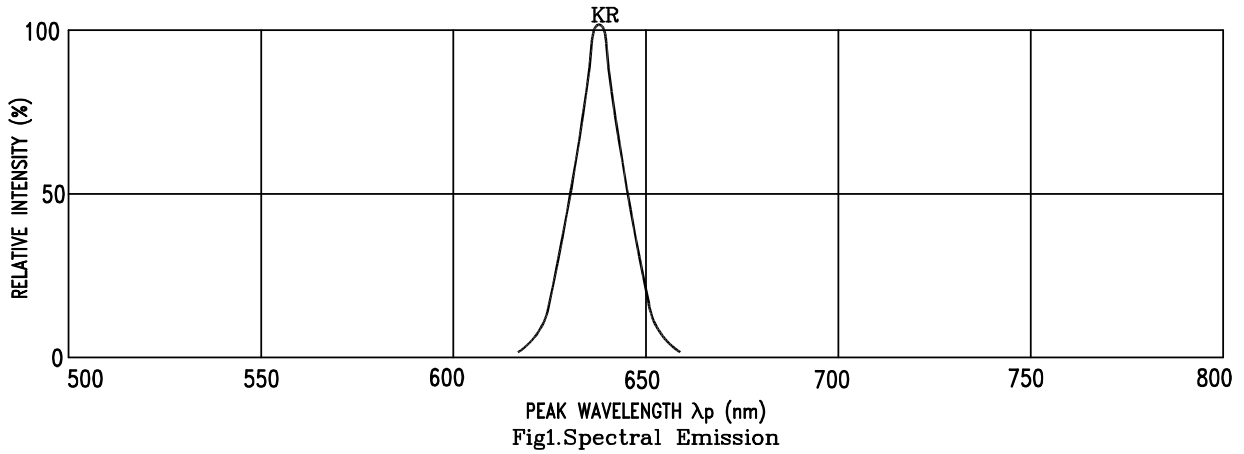
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	320	900		μcd	I _F =1mA
			11700			I _F =10mA
Peak Emission Wavelength	λ _p		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λ _d		631		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.0	2.6	V	I _F =20mA
Reverse Current Per Segment ⁽²⁾	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio (Same 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.
- Reverse voltage is only for IR test. It can not continue to operate at this situation.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : KR=AlInGaP SUPER RED