LITEON®
OPTOELECTRONICS

LED Display

Product Data Sheet

LTS-367KR-02

Spec No.: DS30-2005-002

Effective Date: 04/09/2009

Revision: B

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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FEATURES

- 0.36 inch (9.14 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)**

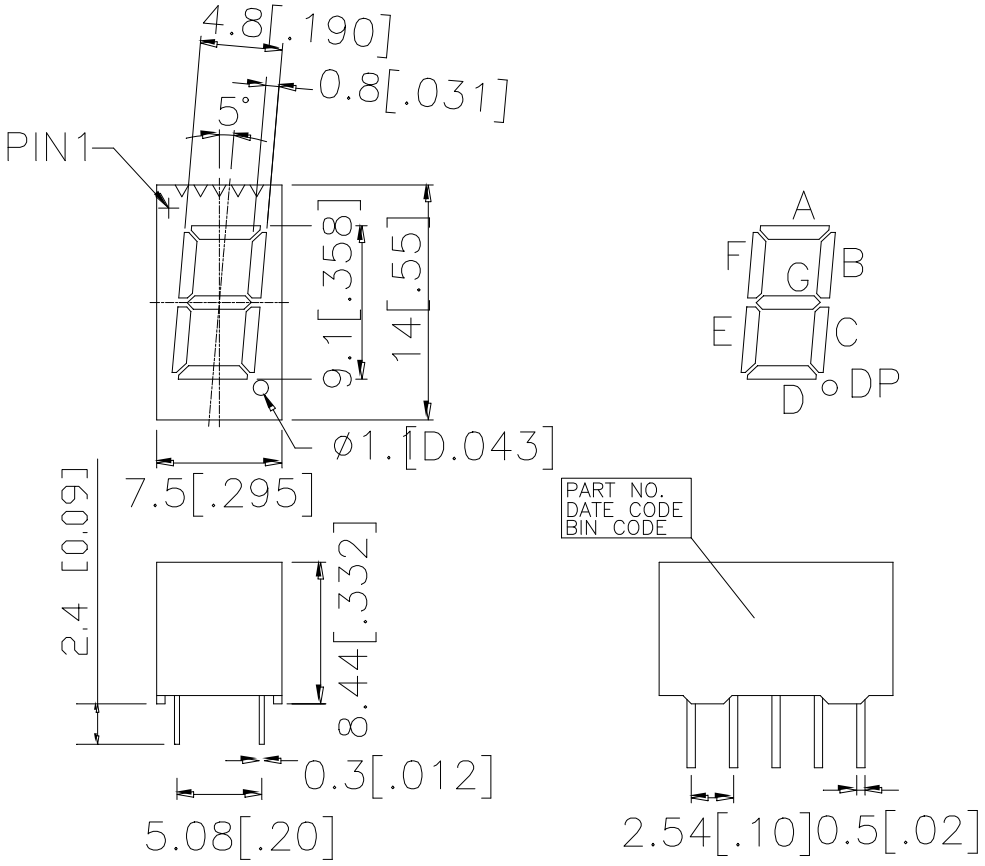
DESCRIPTION

The LTS-367KR-02 is a 0.36 inch (9.14 mm) digit height single digit seven-segment display. This device uses AS-AlInGaP Super Red LED chips(AlInGaP epi on GaAs substrate).The display has a gray face and white segments.

DEVICE

PART NO.	DESCRIPTION
AlInGaP Super Red	COMMON CATHODE
LTS-367KR-02	Rt. Hand Decimal

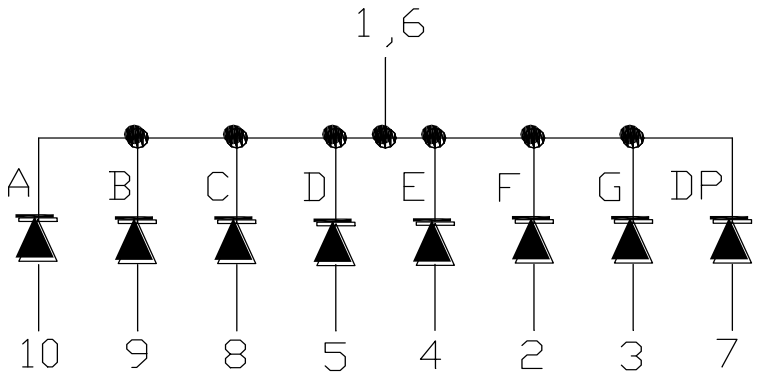
PACKAGE DIMENSIONS



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
1	COMMON CATHODE *1
2	ANODE F
3	ANODE G
4	ANODE E
5	ANODE D
6	COMMON CATHODE *1
7	ANODE D.P.
8	ANODE C
9	ANODE B
10	ANODE A

*1. PIN 1 & PIN 6 ARE INTERNALLY CONNECTED

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 Forward Current Derating from 25^0C	25 0.33	mA mA/^{0}C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35^0C to +85^0C	
Storage Temperature Range	-35^0C to +85^0C	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260^0C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25^{o}C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	750		μcd	IF=1mA
		2100	9750			IF=10mA
Peak Emission Wavelength	λp		639		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		631		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=10mA
Reverse Current Per Segment	IR			100	μA	VR=5V
Luminous Intensity Matching Ratio (Same Light Area)	Iv-m			2:1		IF=1mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

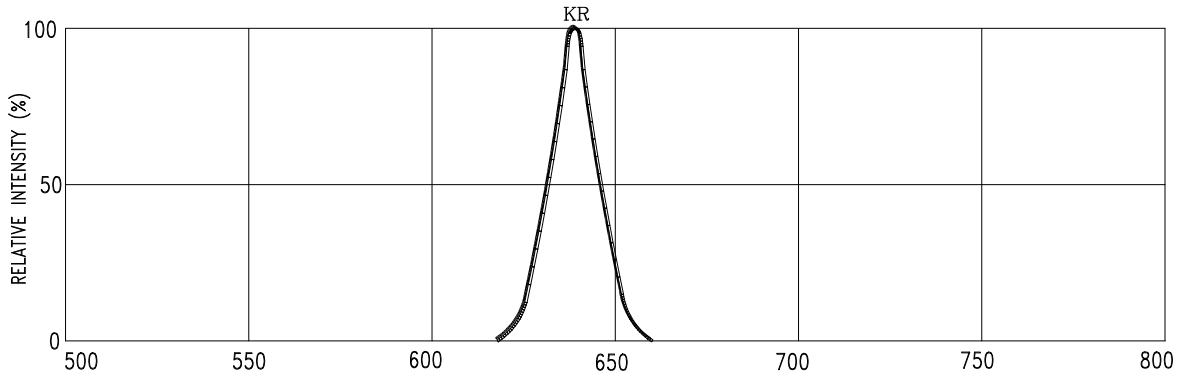


Fig1.Spectral Emission

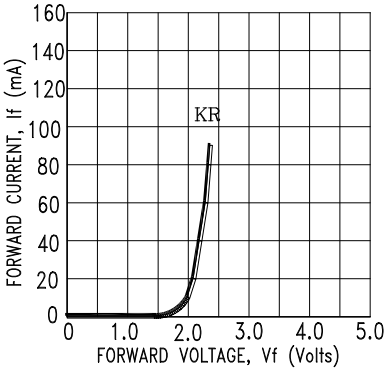


Fig2. Forward Current vs. Forward Voltage

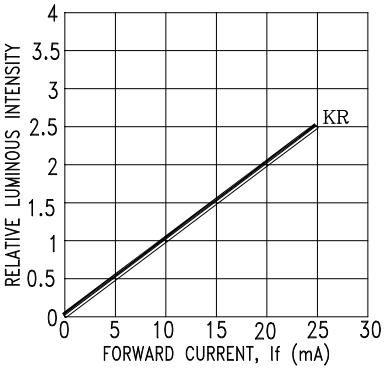


Fig3. Relative Luminous Intensity vs. DC Forward Current

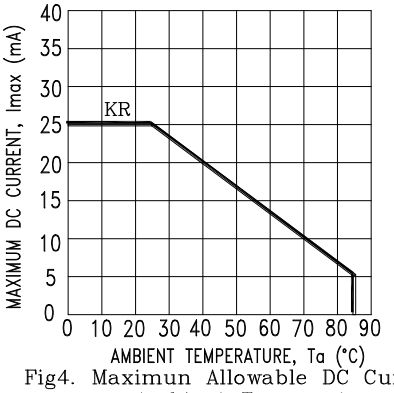


Fig4. Maximun Allowable DC Current vs. Ambient Temperature

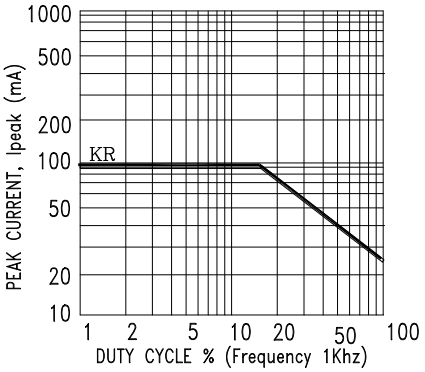


Fig5. Maximum Peak Current vs. Duty Cycle %

NOTE : KR= AlInGaP SUPER RED