



LED Display

Product Data Sheet

LTD-482PC-RE

Spec No.: DS-30-93-147

Effective Date: 02/22/2005

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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FEATURES

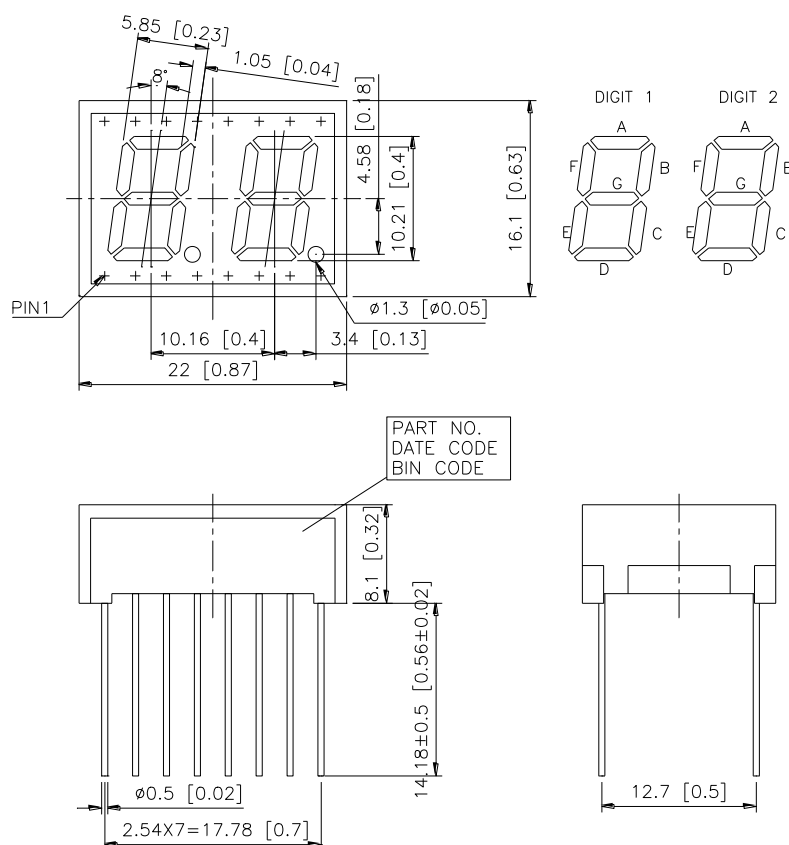
- * 0.4 INCH (10.21 mm) DIGIT HEIGHT
- * CONTINUOUS UNIFORM SEGMENTS
- * LOW POWER REQUIREMENT
- * EXCELLENT CHARACTERS APPEARANCE
- * HIGH BRIGHTNESS & HIGH CONTRAST
- * WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY
- * CATEGORIZED FOR LUMINOUS INTENSITY

DESCRIPTION

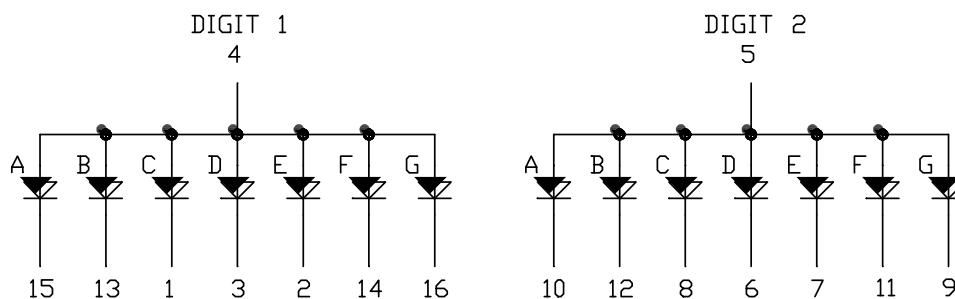
The LTD-482PC-RE is a 0.4 inch (10.21 mm) digit height dual digit seven-segment display. This device uses bright red LED chips(GaP epi on GaP substrate). The display has a gray face and white segments. The top surface covered with one red cap.

DEVICE

PART NO.	DESCRIPTION
BRIGHT RED	Common Anode
LTD-482PC-RE	

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 C (DIGIT 1)
2	CATHODE E (DIGIT 1)
3	CATHODE D (DIGIT 1)
4	COMMON ANODE (DIGIT 1)
5	COMMON ANODE (DIGIT 2)
6	CATHODE D (DIGIT 2)
7	CATHODE E (DIGIT 2)
8	CATHODE C (DIGIT 2)
9	CATHODE G (DIGIT 2)
10	CATHODE A (DIGIT 2)
11	CATHODE F (DIGIT 2)
12	CATHODE B (DIGIT 2)
13	CATHODE B (DIGIT 1)
14	CATHODE F (DIGIT 1)
15	CATHODE A (DIGIT 1)
16	CATHODE G (DIGIT 1)

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	40	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	60*	mA
Continuous Forward Current Per Segment	15	mA
Forward Current Derating from 25 ⁰ C	0.2	mA/ ⁰ C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 ⁰ C to +85 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +85 ⁰ C	
Soldering condition: 1/16 inch Below Seating Plane for 3 Seconds at 260 ⁰ C		

* See figure 5 to establish pulsed condition

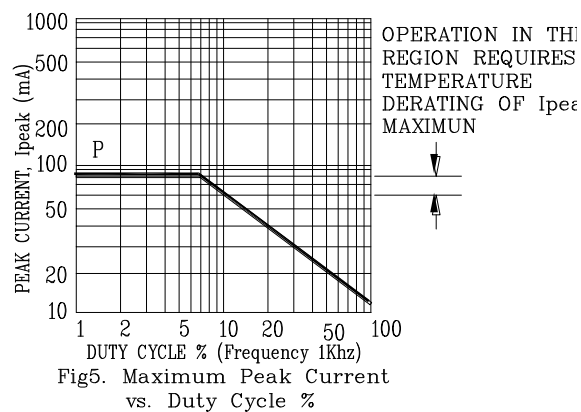
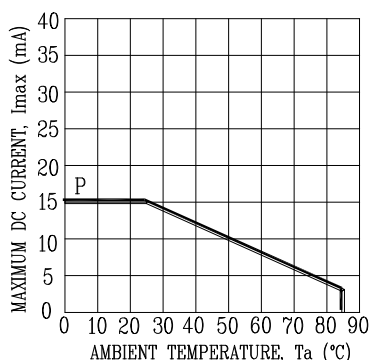
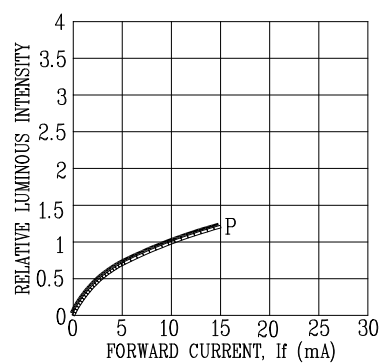
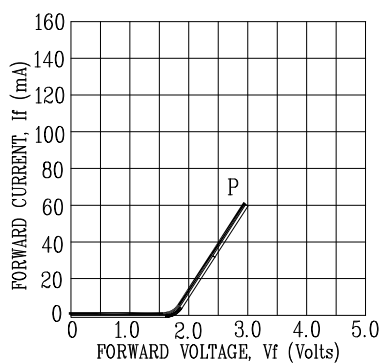
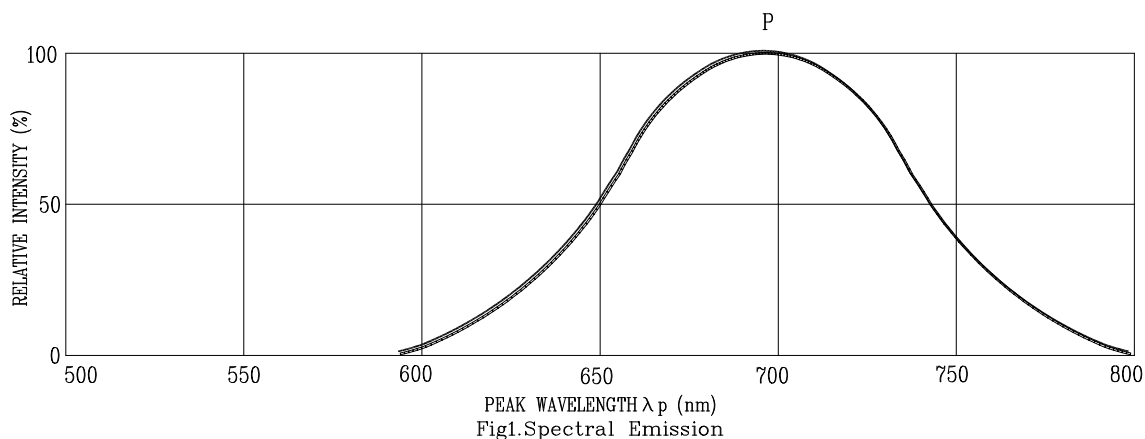
ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25⁰C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	320	800		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		697		nm	I _F =20mA
Spectral Line Half-Width	Δλ		90		nm	I _F =20mA
Dominant Wavelength	λ _d		657		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio (Same Light Area)	I _v -m			2:1		I _F =10mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commision internationale DE L'clairage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : P=BRIGHT RED