



Spec No.: DS-30-97-126Effective Date: 05/23/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

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FEATURES

- *0.54 inch (13.8 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.

DESCRIPTION

The LTP-3786R is a 0.54 inch (13.6 mm) digit height dual digit seven-segment display. This device utilizes red LED chips, which are made from GaP on a transparent GaP substrate, and has gray face and white segments.

DEVICE

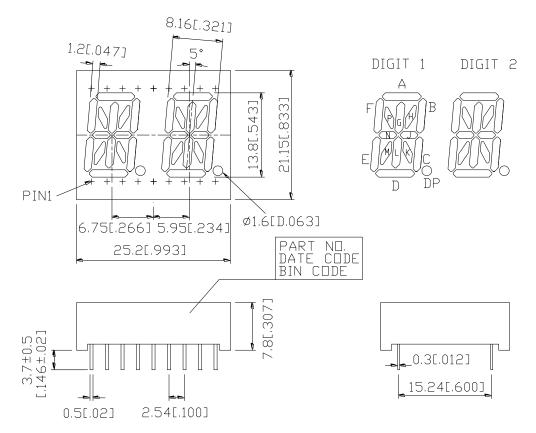
PART NO.	DESCRIPTION		
RED	Common Anode		
LTP-3786R	Rt. Hand Decimal		

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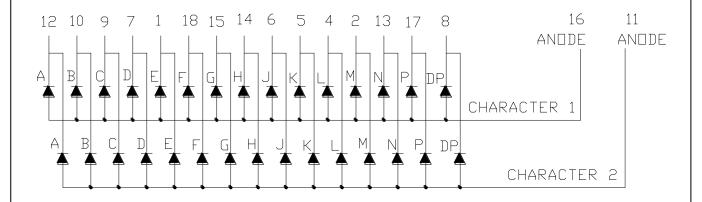
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PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION				
1	CATHODE E				
2	CATHODE M				
3	NO CONNECTION				
4	CATHODE L				
5	CATHODE K				
6	CATHODE J				
7	CATHODE D				
8	CATHODE D.P.				
9	CATHODE C				
10	CATHODE B				
11	COMMON ANODE, CHARACTER 2				
12	CATHODE A				
13	CATHODE N				
14	CATHODE H				
15	CATHODE G				
16	COMMON ANODE, CHARACTER 1				
17	CATHODE P				
18	CATHODE F				

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	25	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	150	mA			
Continuous Forward Current Per Segment	13	mA			
Derating Linear From 25°C Per Segment	0.17	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

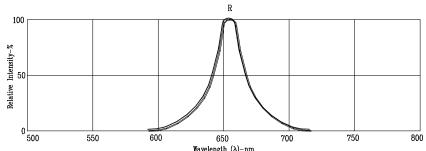
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	400		μcd	I=10mA
Peak Emission Wavelength	λр		655		nm	IF=20mA
Spectral Line Half-Width	Δλ		24		nm	I _F =20mA
Dominant Wavelength	λd		651		nm	I _F =20mA
Forward Voltage Per Segment	VF		1.7	2.0	V	I _F =20mA
Reverse Current Per Segment	IR			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

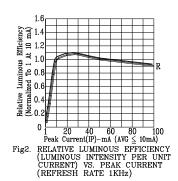
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

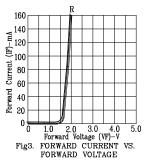
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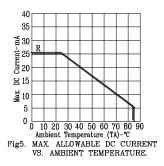
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

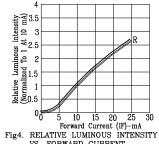
(25°C Ambient Temperature Unless Otherwise Noted)



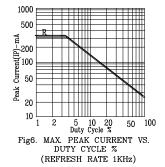








VS. FORWARD CURRENT



NOTE: R=RED

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