



**Spec No.: DS-30-97-273**Effective Date: 07/15/2000

Revision: -

**LITE-ON DCC** 

**RELEASE** 

BNS-OD-FC001/A4

### Property of Lite-On Only

#### **FEATURES**

- \*0.5-INCH (12.7-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**

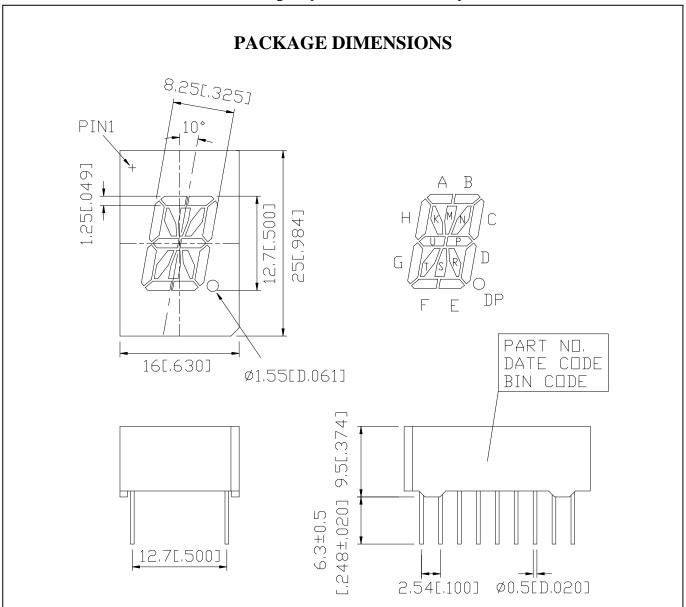
The LTP-587HR is a 0.5-inch (12.7-mm) height 16-segment single digit alphanumeric display. This device utilizes high efficiency red LED chips, which are made from GaAsP on GaP substrate, and has a red face and red segments.

#### **DEVICE**

PART NO.	DESCRIPTION
HIEFF. RED	Common Anode,
LTP-587HR	Rt. Hand decimal

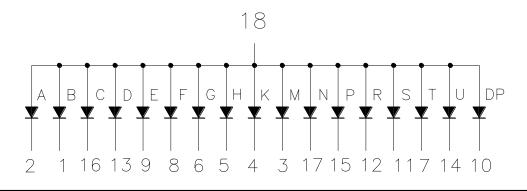
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Property of Lite-On Only



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

#### INTERNAL CIRCUIT DIAGRAM



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### Property of Lite-On Only

#### PIN CONNECTION

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

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### Property of Lite-On Only

#### ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	75	mW			
Peak Forward Current Per Segment ( 1/10 Duty Cycle, 0.1ms Pulse Width )	100	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 <sup>o</sup> C Per Segment	0.33	mA/ <sup>0</sup> C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	$-35^{0}$ C to $+85^{0}$ C				
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

### ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λр		635		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		40		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		623		nm	I <sub>F</sub> =20mA
Forward Voltage. Per Segment	VF		2.0	2.6	V	I <sub>F</sub> =20mA
Reverse Current, Per Segment	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I <sub>F</sub> =10mA

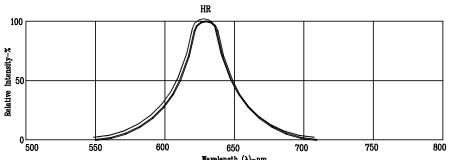
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

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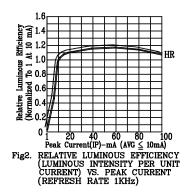
Property of Lite-On Only

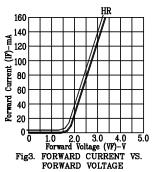
#### TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

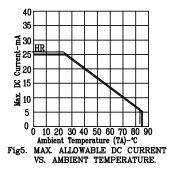
(25°C Ambient Temperature Unless Otherwise Noted)



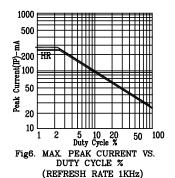
Wavelength (λ)-nm.
Fig1. RELATIVE INTENSITY VS. WAVELENGTH







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NOTE: HR=HI.-EFF.RED

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