



Spec No.: DS-30-98-381Effective Date: 11/14/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

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FEATURES

- *RECTANGULAR LIGHT BAR.
- *LARGE, BRIGHT, UNIFORM LIGHT EMITTING AREAS.
- *LOW POWER REQUIREMENT.
- *HIGH BRIGHTNESS & HIGH CONTRAST.
- * SOLID STATE RELIABILITY.
- *CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

The LTL-2350HR is a light bar rectangular light sources designed for a variety of applications where a large bright source of light is required. This device utilizes high efficiency red LED chips, which are made from GaAsP on a transparent GaP substrate, and has white bar.

DEVICE

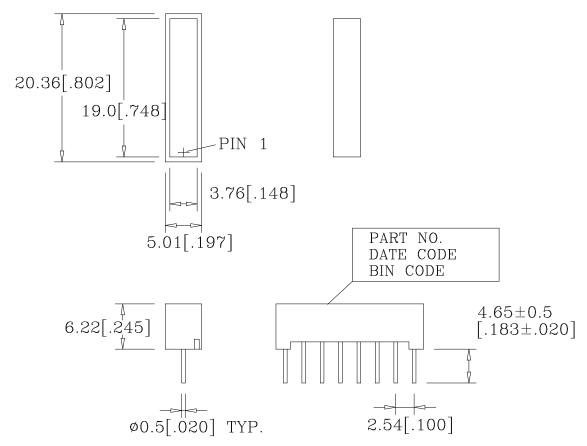
PART NO.	DESCRIPTION		
Hi-Eff. Red	Universal		
LTL-2350HR	Rectangular Bar		

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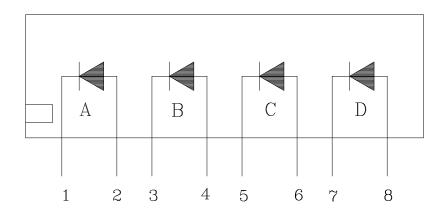
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No	CONNECTION
1	CATHODE A
2	ANODE A
3	CATHODE B
4	ANODE B
5	CATHODE C
6	ANODE C
7	CATHODE D
8	ANODE D

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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°C Per Segment	0.33	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 below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

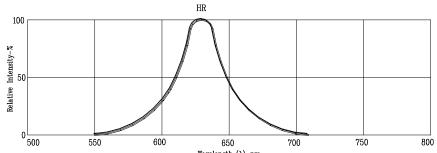
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	3500	8000		μcd	I=10mA
Peak Emission Wavelength	λр		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		623		nm	I _F =20mA
Forward Voltage Per Segment	VF		2	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

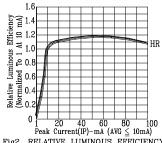
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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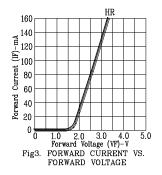
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

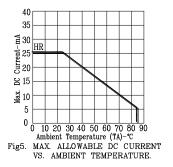
(25°C Ambient Temperature Unless Otherwise Noted)

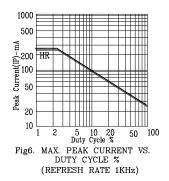




0 1 20 40 60 80 100
Peak Current(IP)-mA (AVG ≦ 10mÅ)
Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)







NOTE: HR=HI.-EFF.RED

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