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Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics

No.90, Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

Property of Lite-On Only

FEATURES

- *LARGE, BRIGHT, UNIFORM LIGHT EMITTING AREAS.
- *LOW POWER REQUIREMENT.
- *EXCELLENT ON-OFF CONTRAST.
- *CAN BE USED WITH PANEL AND LEGEND MOUNT.
- *WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- *CATEGORIZED FOR LIGHT OUTPUT.

DESCRIPTION

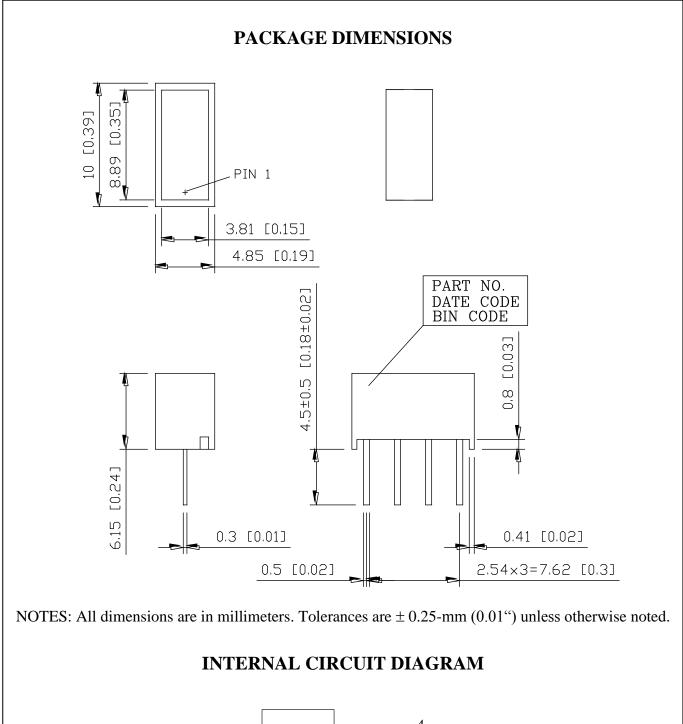
The LTL-2300HR is a rectangular light source display that is designed for a variety of applications where a large bright source of light is required. This device utilizes high efficiency red LED chips that are made from GaAsP on a transparent GaP substrate, and has white bar color.

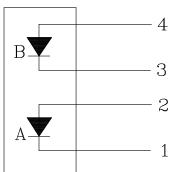
DEVICE

PART NO.	DESCRIPTION			
HiEff. Red	Universal			
LTL-2300HR	Rectangular Bar			

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Property of Lite-On Only





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Property of Lite-On Only

PIN CONNECTION

No.	CONNECTION
1	CATHODE A
2	ANODE A
3	CATHODE B
4	ANODE B

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT T_A=25°C

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

ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}C$

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1.4	4.2		mcd	I _F =10mA
Peak Emission Wavelength	λр		635		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		623		nm	I _F =20mA
Forward Voltage. Per Bar	V_{F}		2	2.6	V	IF=20mA
Reverse Current, Per Bar	IR			100	μΑ	V _R =5V

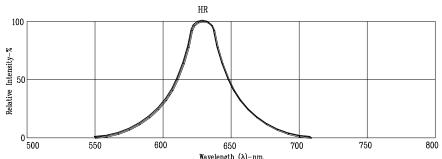
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

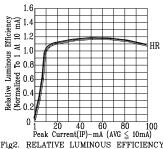
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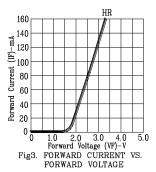
Property of Lite-On Only

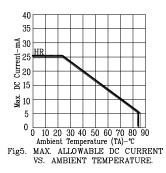
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

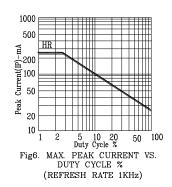








Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: HR=HI.-EFF.RED

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