



Spec No.: DS-30-98-399 Effective Date: 11/14/2000 Revision: -



BNS-OD-FC001/A4

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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-2820G 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 green LED chips, which are made from GaP on a transparent GaP substrate, and has white bar.

DEVICE

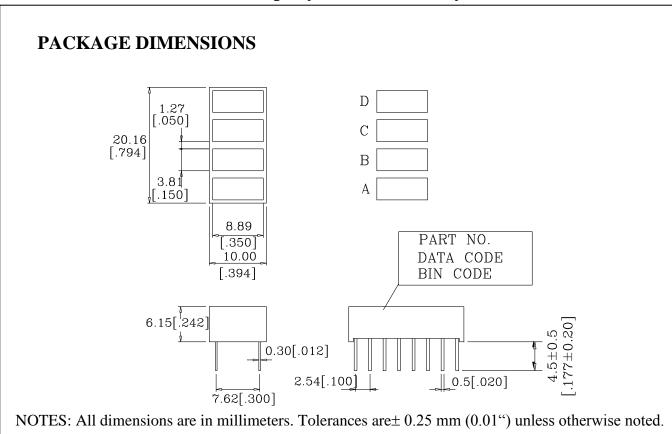
PART NO.	DESCRIPTION			
Green	Universal			
LTL-2820G	Rectangular Bar			

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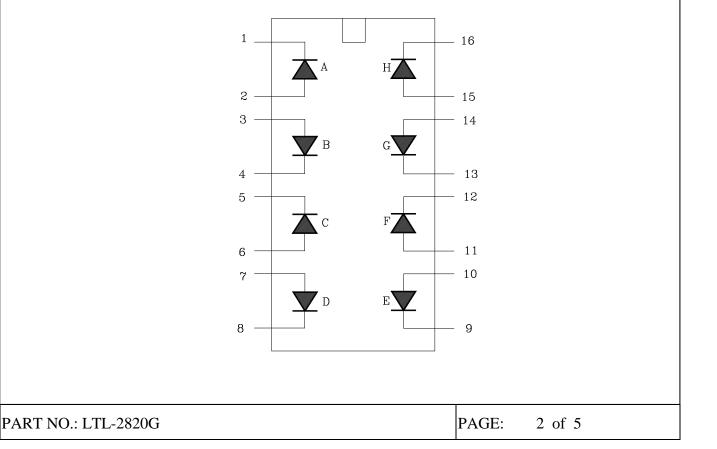


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INTERNAL CIRCUIT DIAGRAM





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PIN CONNECTION

No	CONNECTION
1	CATHODE A
2	ANODE A
3	ANODE B
4	CATHODE B
5	CATHODE C
6	ANODE C
7	ANODE D
8	CATHODE D
9	CATHODE E
10	ANODE E
11	ANODE F
12	CATHODE F
13	CATHODE G
14	ANODE G
15	ANODE H
16	CATHODE H

PART NO.: LTL-2820G

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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	1400	4200		μcd	IF=10mA
Peak Emission Wavelength	λp		565		nm	IF=20mA
Spectral Line Half-Width	Δλ		30		nm	IF=20mA
Dominant Wavelength	λd		569		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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

