imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Spec No.: DS-30-96-298 Effective Date: 06/01/2001 Revision: -



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

LITEON

Property of Lite-On Only

FEATURES

* 0.8 inch (20.0 mm) DIAMETER BIG LAMP.
* WIDE VIEWING ANGLE.
* GRAPHIC STACKING ALLOWABLE.
* HIGH LUMINOUS INTENSITY.
* LOW POWER REQUIREMENT.
* SOLID STATE RELIABILITY.
* CATEGORIZED FOR LUMINOUS INTENSITY.
* EXCELLENT ON-OFF CONTRAST.
* SUITABLE FOR MULTIPLEX OPERATION.
* EASY MOUNTING ON P.C. BOARD OR SOCKETS.

DESCRIPTION

The LTJ-811G big lamp is sphere light sources designed for a variety of application where a large, right source of light is required. The ultra green device utilize LED chips which are made from GaP on a transparent GaP substrate. The ultra green devices have green diffused lens color.

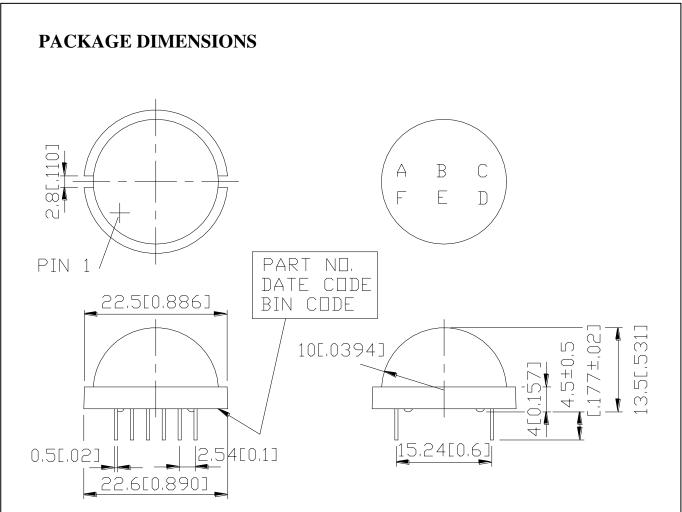
DEVICE

PART NO.	DESCRIPTION		
GREEN	Universal		
LTJ-811G	Sphere lens		



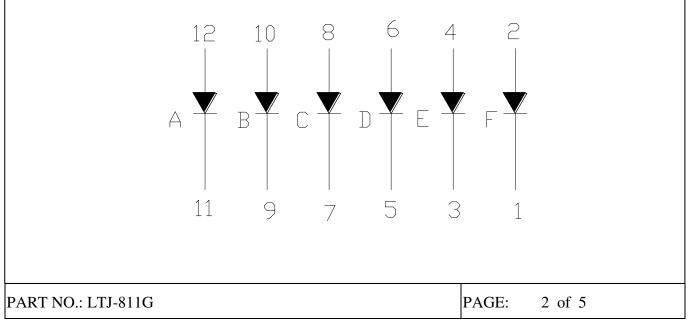
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NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



BNS-OD-C131/A4



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PIN CONNECTION

No.	CONNECTION
1	CATHODE F
2	ANODE F
3	CATHODE E
4	ANODE E
5	CATHODE D
6	ANODE D
7	CATHODE C
8	ANODE C
9	CATHODE B
10	ANODE B
11	CATHODE A
12	ANODE A

PART NO.: LTJ-811G

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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[1/16inch] below seating plane.				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

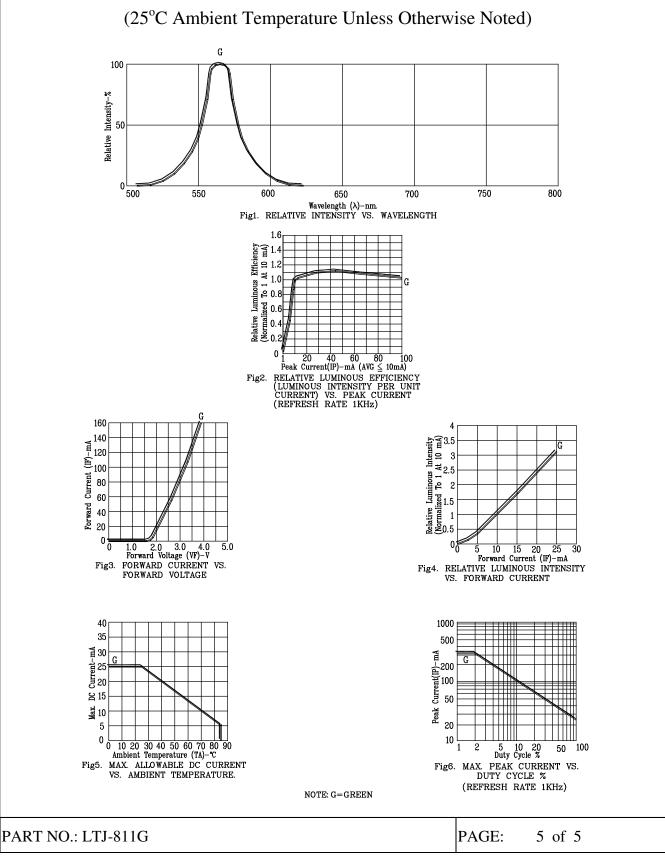
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	10	25		mcd	IF=60mA
Peak Emission Wavelength	λp		585		nm	IF=20mA
Spectral Line Half-Width	Δ0λ		35		nm	IF=20mA
Dominant Wavelength	λd		588		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per 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



BNS-OD-C131/A4