



LED Display

Product Data Sheet

LTJ-811G

Spec No.: DS-30-96-298

Effective Date: 06/01/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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.

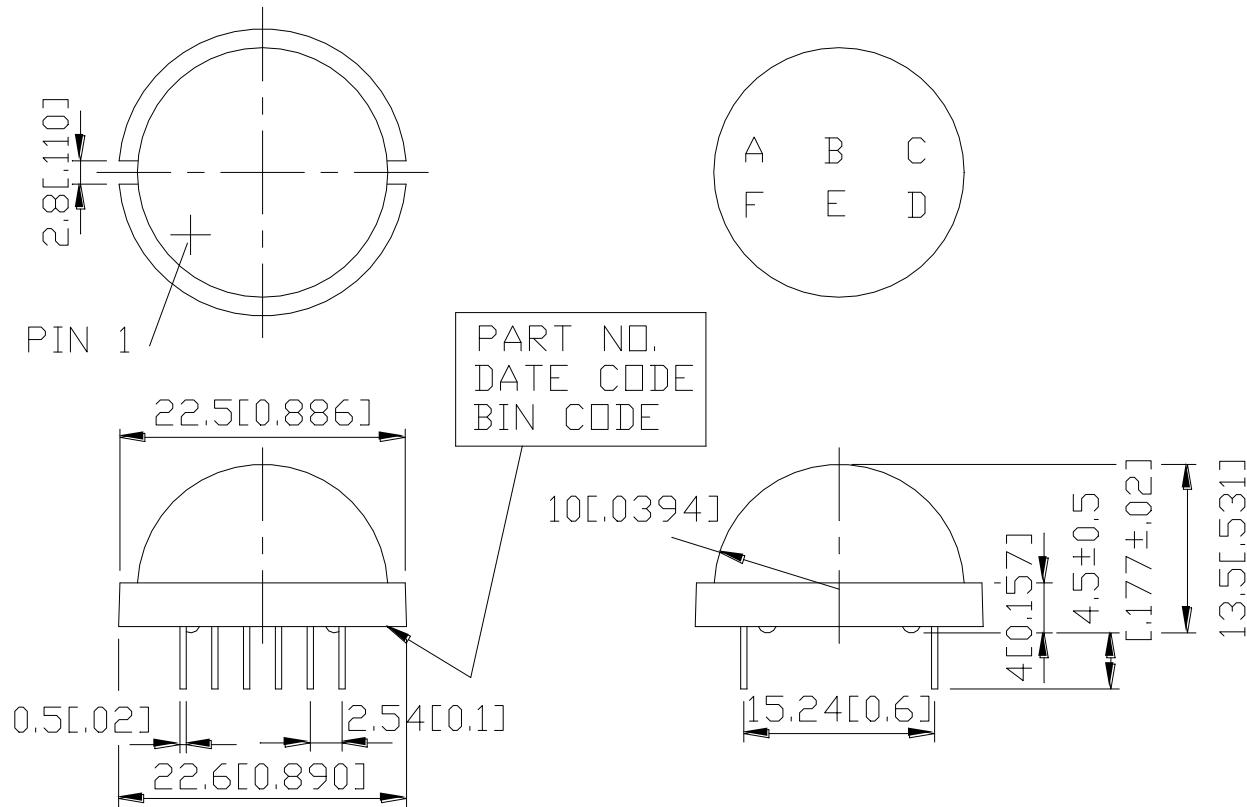
DESCRIPTION

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

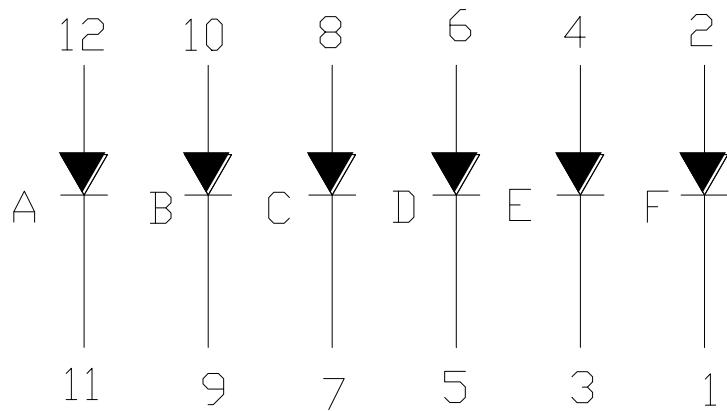
PART NO.	DESCRIPTION
GREEN	Universal
LTJ-811G	Sphere lens

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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

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	I _v	10	25		mcd	I _F =60mA
Peak Emission Wavelength	λ _p		585		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λ _d		588		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio	I _v -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.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

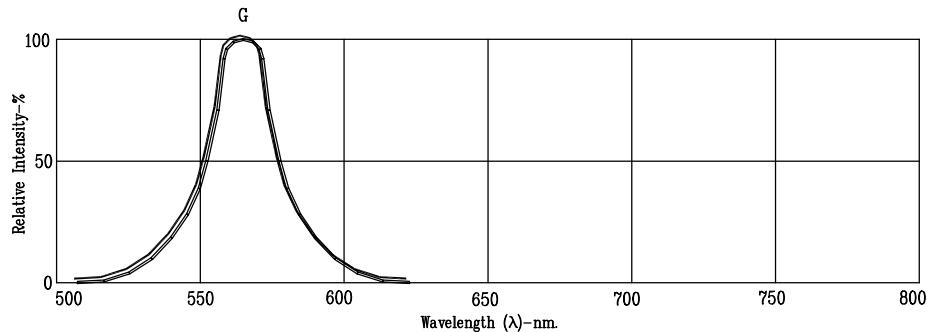


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

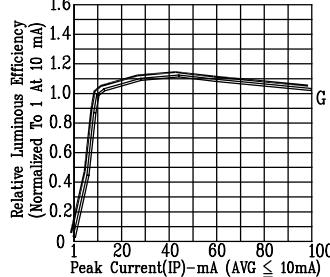
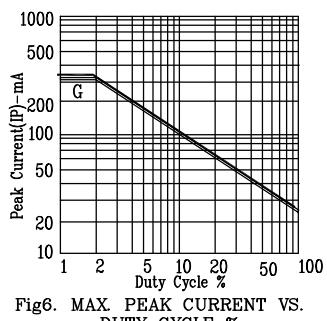
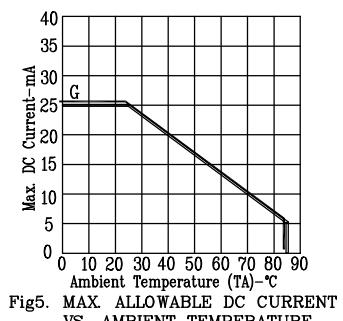
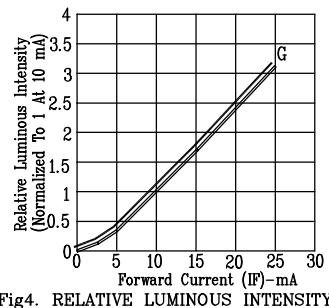
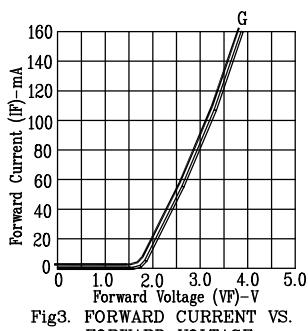


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)



NOTE: G=GREEN