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BNS-OD-FC001/A4

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

DEVICE

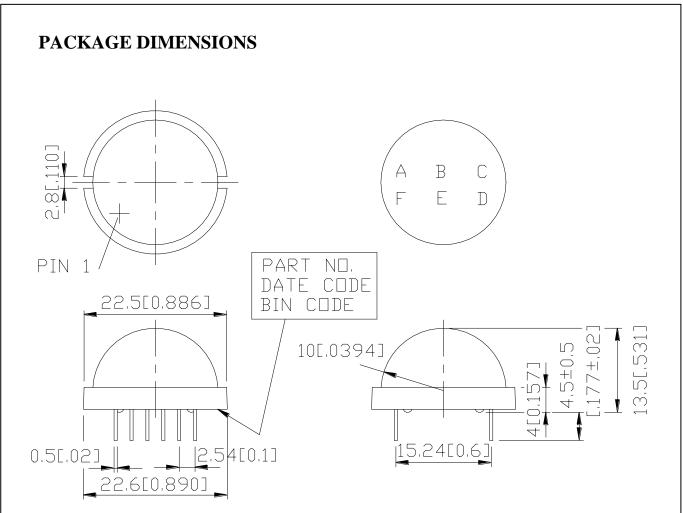
PART NO.	DESCRIPTION
HI-EFF. RED	Universal
LTJ-811HR	Sphere lens

PART NO.: LTJ-	311HR	PAGE:	1 of 5



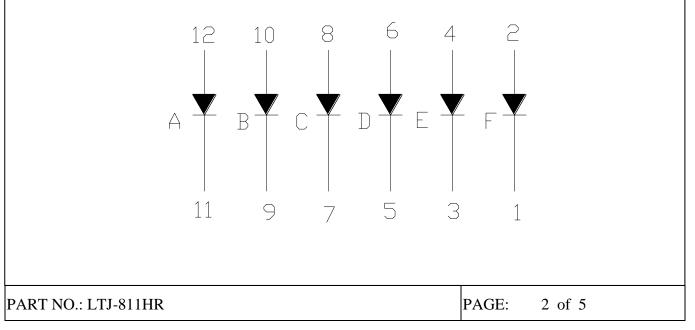
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NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION
1	CATHODE 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-811HR

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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

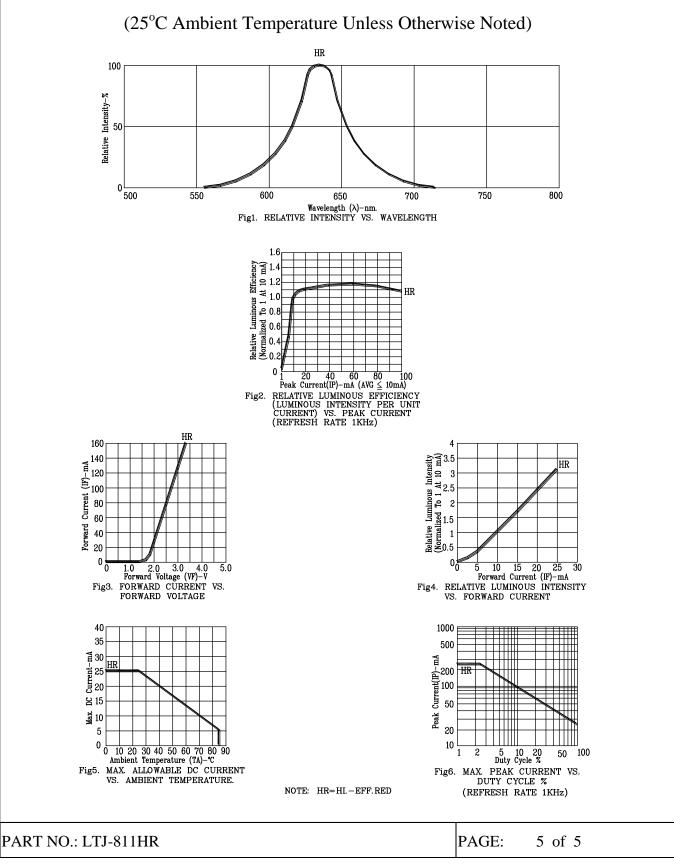
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	10	25		mcd	IF=60mA
Peak Emission Wavelength	λp		635		nm	IF=20mA
Spectral Line Half-Width	Δ0λ		40		nm	IF=20mA
Dominant Wavelength	λd		623		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per 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

Mouser Electronics

Authorized Distributor

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Lite-On: LTJ-811HR