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

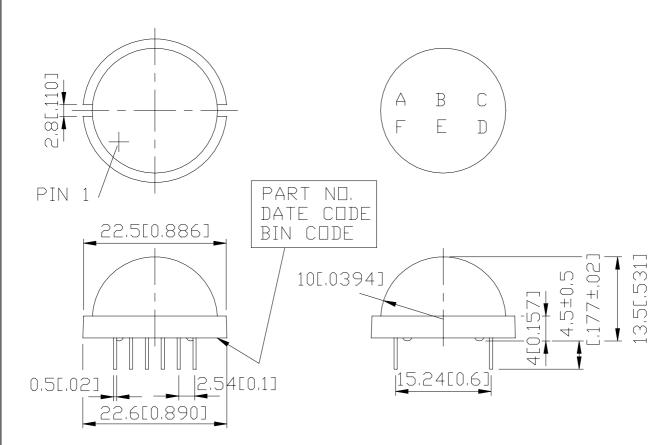
DEVICE

PART NO.	DESCRIPTION		
YELLOW	Universal		
LTJ-811Y	Sphere lens		

PART NO.: LTJ-811Y PAGE: 1 of 5

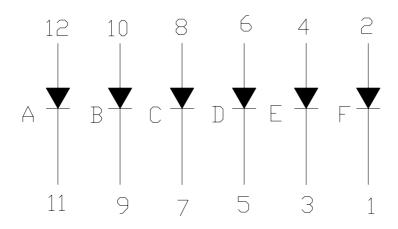
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PAGE: PART NO.: LTJ-811Y 2 of 5



Property of Lite-On Only

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

3 of 5 PAGE: PART NO.: LTJ-811Y



Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	60	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA			
Continuous Forward Current Per Segment	20	mA			
Derating Linear From 25°C Per Segment	0.27	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

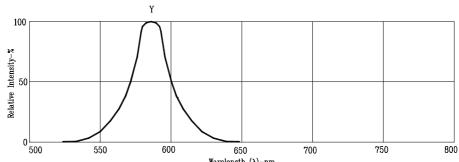
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	11	25		mcd	I _F =60mA
Peak Emission Wavelength	λр		565		nm	I _F =20mA
Spectral Line Half-Width	Δ0λ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

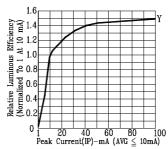
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

PART NO.: LTJ-811Y PAGE: 4 of 5

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

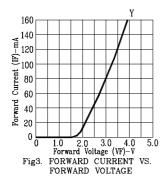
(25°C Ambient Temperature Unless Otherwise Noted)

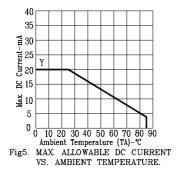




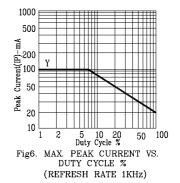
0 1 20 40 60 80 100
Peak Current(IP)-mA (AVG \(\) 10mA)

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





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NOTE : Y=YELLOW

PART NO.: LTJ-811Y PAGE: 5 of 5