



Spec No.: DS30-2006-142 Effective Date: 09/20/2006

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.4 inch (10 mm) DIGIT HEIGHT.
- *CONTINUOUS UNIFORM SEGMENTS.
- *LOW POWER REQUIREMENT.
- *EXCELLENT CHARACTERS APPEARANCE.
- *HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- *CATEGORIZED FOR LUMINOUS INTENSITY.
- *LEAD-FREE PACKAGE(ACCORDING TO ROHS)

DESCRIPTION

The LTP-4823JD is a 0.4 inch (10 mm) digit height dual digit 16segments alphanumeric display. This device utilizes AlInGaP hyper red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

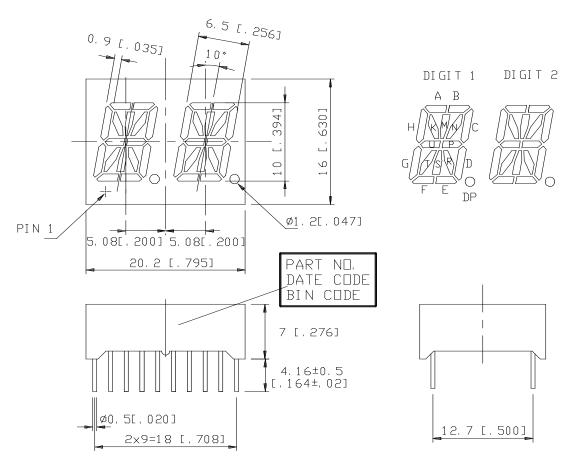
DEVICE

PART NO.	DESCRIPTION			
AlInGaP HYPER RED	DUPLEX COMMON ANODE			
LTP-4823JD	RT. HAND DECIMAL			

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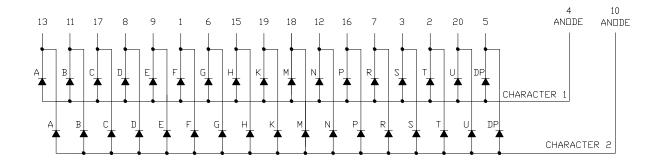
PACKAGE DIMENSIONS



NOTES: 1. All dimensions are in millimeters. Tolerances are \pm 0.25 mm unless otherwise note.

2. Pin tip's shift tolerance is \pm 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION				
1	CATHODE F				
2	CATHODE T				
3	CATHODE S				
4	COMMON ANODE CHARACTER 1				
5	CATHODE D.P.				
6	CATHODE G				
7	CATHODE R				
8	CATHODE D				
9	CATHODE E				
10	COMMON ANODE CHARACTER 2				
11	CATHODE B				
12	CATHODE N				
13	CATHODE A				
14	NO CONNECTION				
15	CATHODE H				
16	CATHODE P				
17	CATHODE C				
18	CATHODE M				
19	CATHODE K				
20	CATHODE U				

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Average Power Dissipation Per Segment	70	mW			
Peak Forward Current Per Segment	90	mA			
Average Forward Current Per Segment	25	mA			
Derating Linear From 25℃ Per Segment	0.33	$mA/^{\circ}C$			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35°C to +105°C				
Storage Temperature Range	-35°C to +105°C				

Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C

or of temperature unit (during assembly) not over max temperature rating above.

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

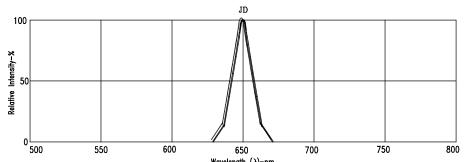
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	975		μcd	I _F =1mA
Peak Emission Wavelength	λр		650		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λd		639		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	IR			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		I _F =1mA

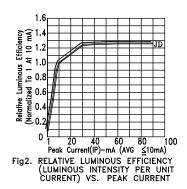
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eve-response curve.

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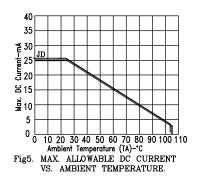
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

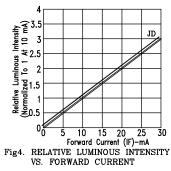
(25°C Ambient Temperature Unless Otherwise Noted)





¥ 120 100 20 1.0 2.0 3.0 4.0 5 Forward Voltage (VF)-V FORWARD CURRENT VS. FORWARD VOLTAGE





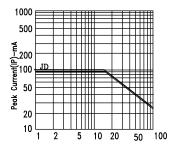


Fig6. MAX. PEAK CURRENT VS.
DUTY CYCLE %
(REFRESH RATE 1KHz)

NOTE: JD=AlInGaP HYPER RED

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