



LED Display Product Data Sheet LTP-4323JD

Spec No.: DS30-2001-094

Effective Date: 05/16/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

FEATURES

- * 0.4 inch (10.0-mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENTS.
- * EXCELLENT CHARACTERS AND APPEARANCE.
- * HIGH CONTRAST.
- * HIGH BRIGHTNESS.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- * COMMON ANODE OR COMMON CATHODE MODELS.
- * CATEGORIZED FOR LUMINOUS INTENSITY.
- * EASY MOUNTING ON P.C. BOARD.

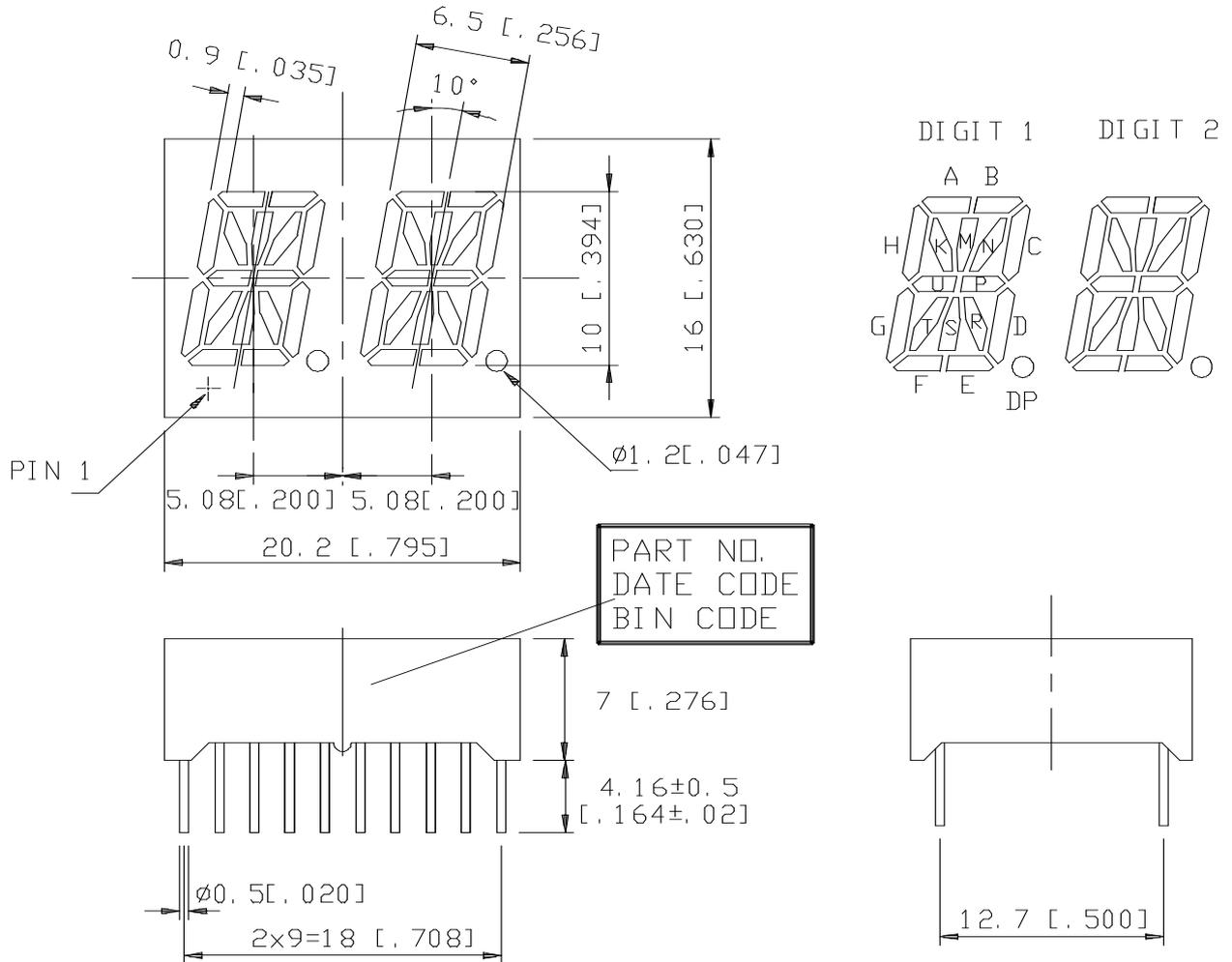
DESCRIPTION

The LTP-4323JD is a 0.4 inch (10.0 mm) digit height 16-segment dual alphanumeric display. This device utilizes AllnGaP Hyper red LED chips, which are made from AllnGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

DEVICE

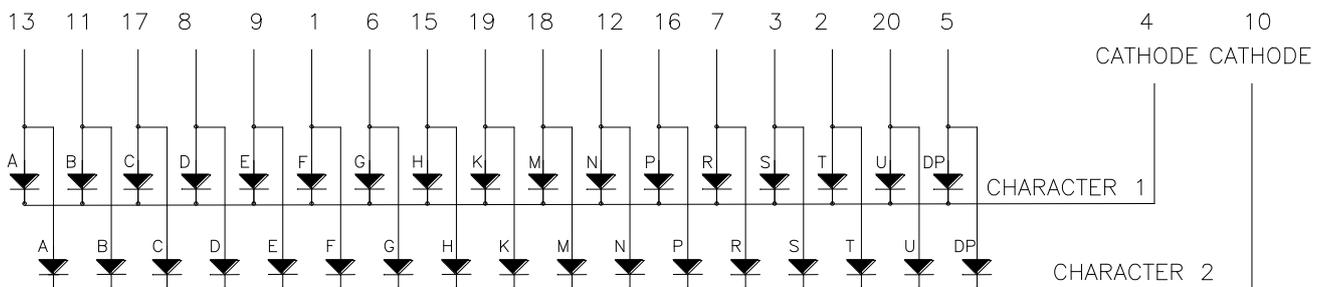
PART NO.	DESCRIPTION
AllnGaP Hyper red	DUPLEX COMMON CATHODE
LTP-4323JD	RT. HAND DECIMAL

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

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°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	200	650		μcd	I _F =1mA
Peak Emission Wavelength	λ _p		650		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λ _d		639		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 =1mA

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)

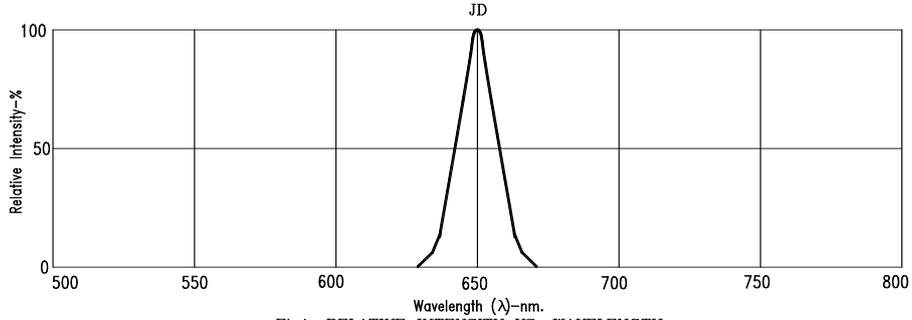


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

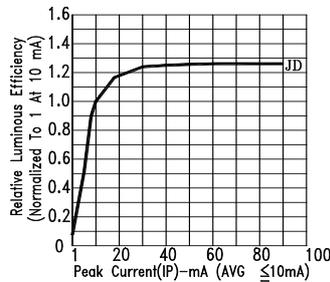


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT

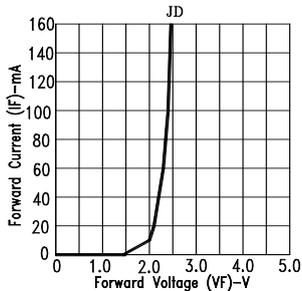


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

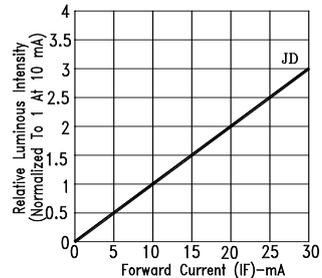


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

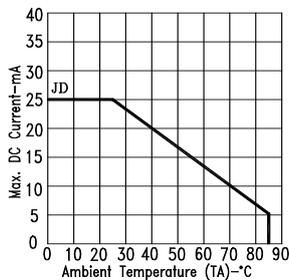


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

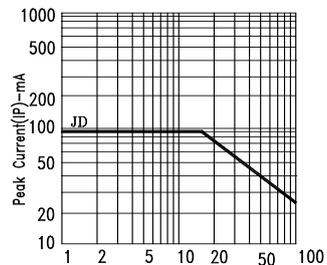


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE : JD=AlInGaP HYPER RED