

**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.

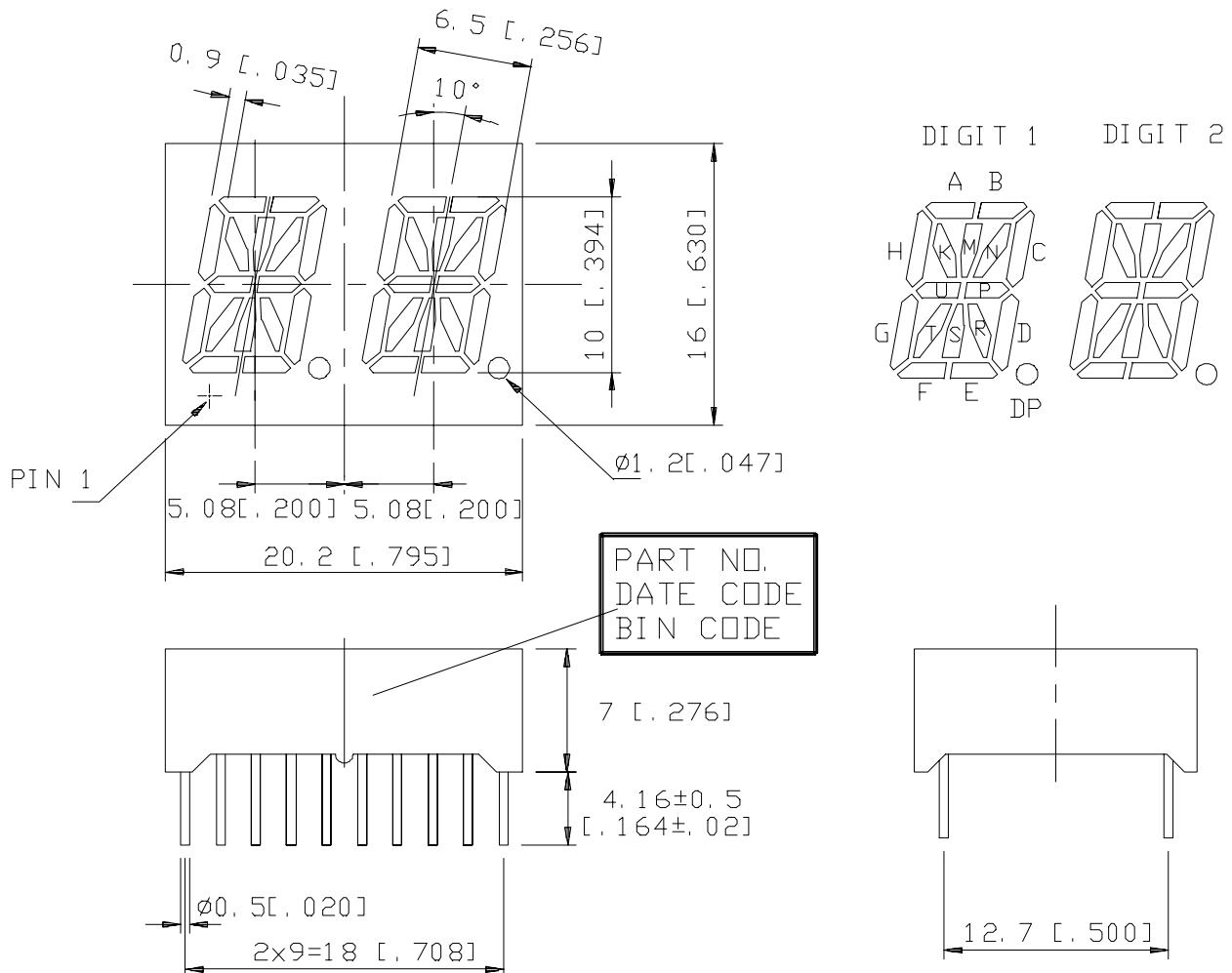
**DESCRIPTION**

The LTP-4323P is a 0.4 inch (10 mm) height 16-segment dual alphanumeric display. This device utilizes bright red LED chips, which are made from GaP on GaP substrate, and has a gray face and white segments.

**DEVICE**

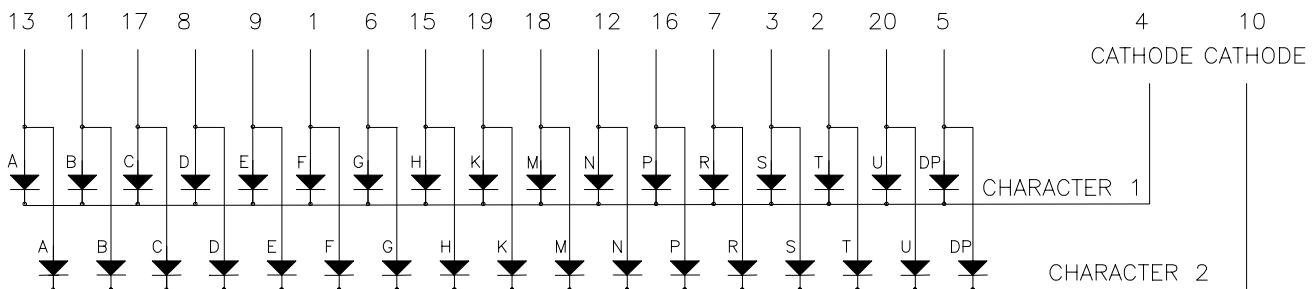
<b>PART NO.</b>	<b>DESCRIPTION</b>
BRIGHT RED	DUPLEX COMMON CATHODE
LTP-4323P	RT. HAND DECIMAL

## PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are  $\pm 0.25$  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	40	mW
Peak Forward Current Per Segment	60	mA
Average Forward Current Per Segment	15	mA
Derating Linear From 25°C Per Segment	0.20	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 <sub>v</sub>	320	750		μcd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λ <sub>p</sub>		697		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		90		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		657		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	V <sub>F</sub>		2.1	2.6	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	I <sub>v</sub> -m			2:1		I <sub>F</sub> =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)

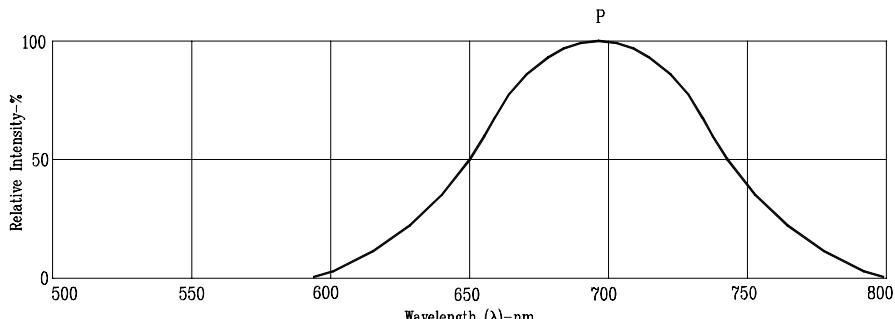
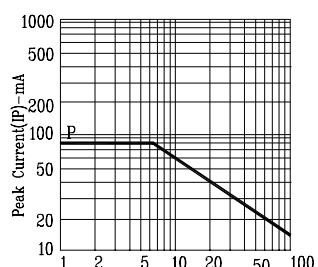
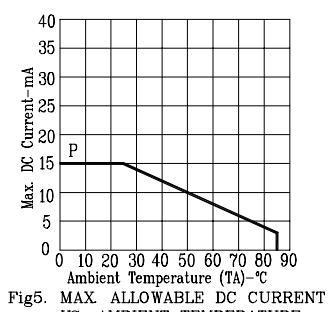
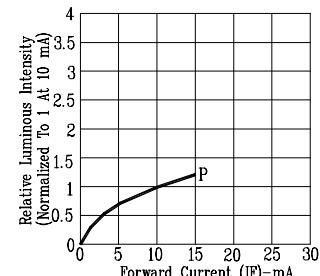
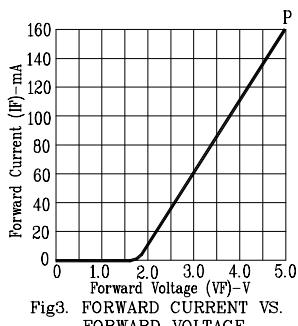
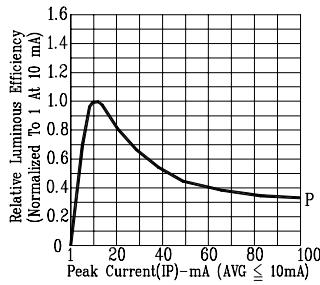


Fig1. RELATIVE INTENSITY VS. WAVELENGTH



NOTE: P=BRIGHT RED