

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

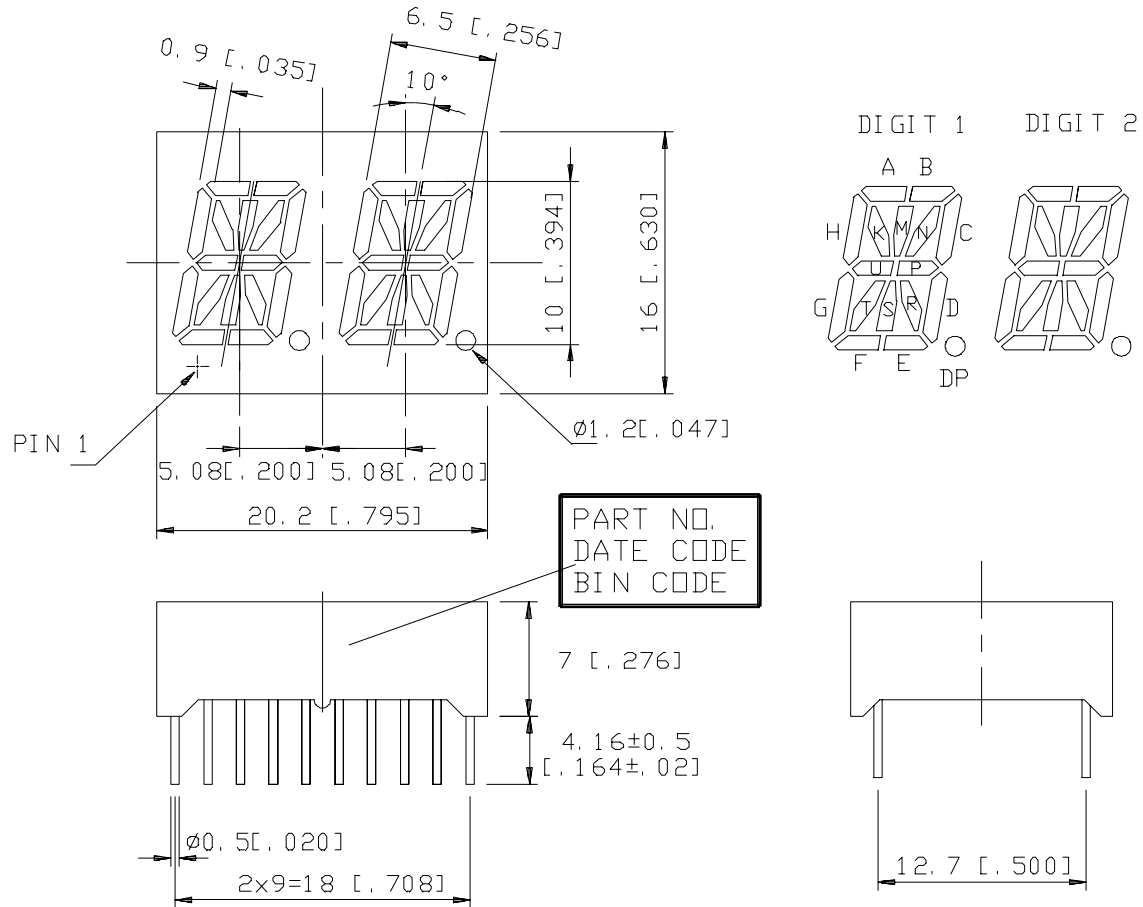
DESCRIPTION

The LTP-4823E-01 is a 0.4 inch (10 mm) digit height alphanumeric display. This device uses RED ORANGE LED chips (GaAsP epi on GaP substrate), and has a gray face and white segments.

DEVICE

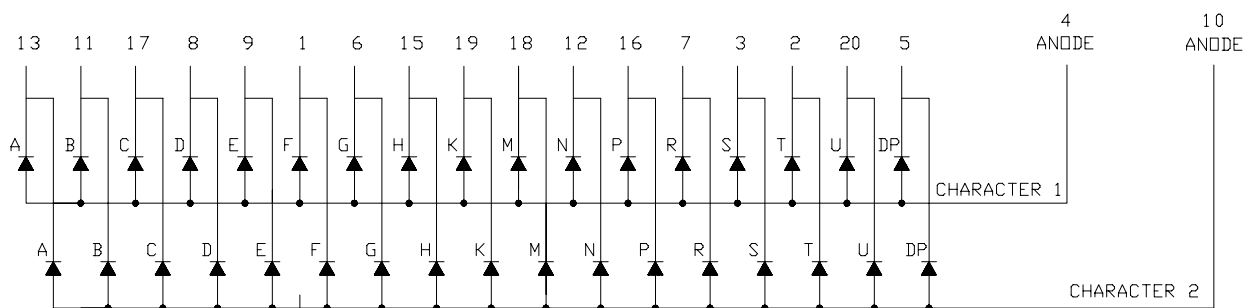
PART NO.	DESCRIPTION
RED ORANGE	DUPLEX COMMON ANODE
LTP-4823E-01	RT. HAND DECIMAL

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	CATHODE F
2	CATHODE T
3	CATHODE S
4	COMMON ANODE CHARACTER 1
5	CATHODE DP
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

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Average Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (Frequency 1Khz, 25% duty cycle)	100*	mA
Average Forward Current Per Segment	25	mA
Derating Linear From 25 Per Segment	0.28	mA/
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 to +105	
Storage Temperature Range	-35 to +105	
Solder Temperature: max 260 for max 3sec at 1.6mm[1/16inch] below seating plane.		

*see figure 5 to establish pulsed condition

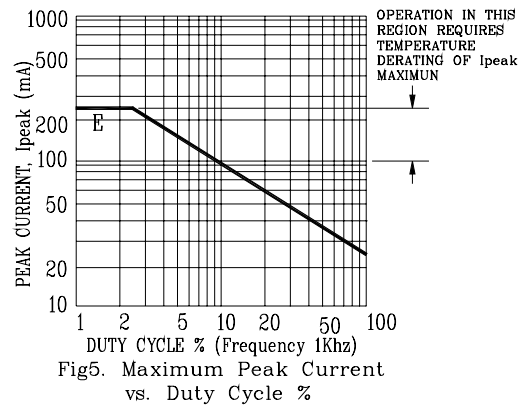
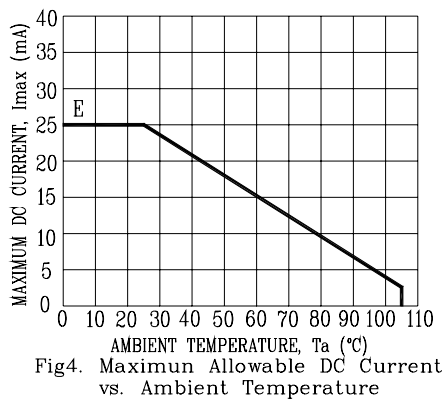
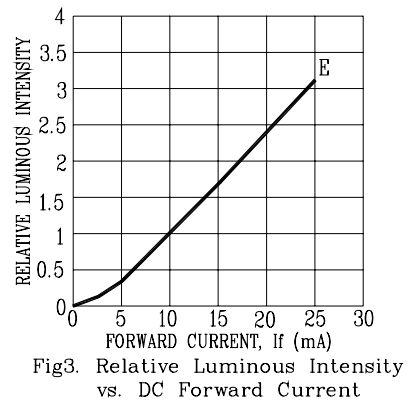
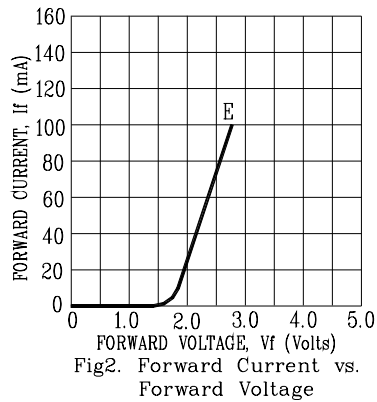
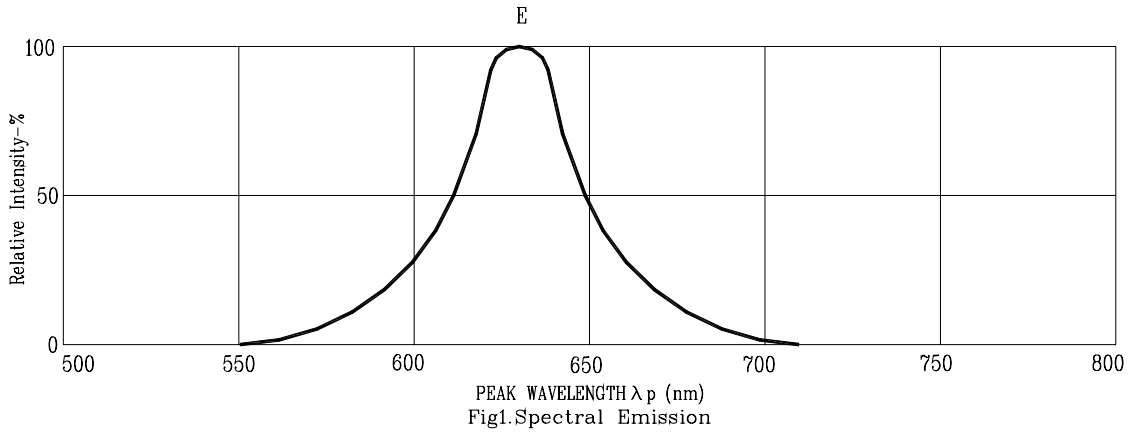
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	800	2200		μcd	I _p =10mA
Peak Emission Wavelength	λ _p		630		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λ _d		621		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.0	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 =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)



NOTE: E=RED ORANGE