FEATURES

- 0.28 inch (7.0 mm) DIGIT HEIGHT
- EXCELLENT SEGMENT UNIFORMITY
- LOW POWER REQUIREMENT
- HIGH BRIGHTNESS AND HIGH CONTRAST
- WIDE VIEWING ANGLE
- SOLID STATE RELIABILITY
- BINNED FOR LUMINOUS INTENSITY

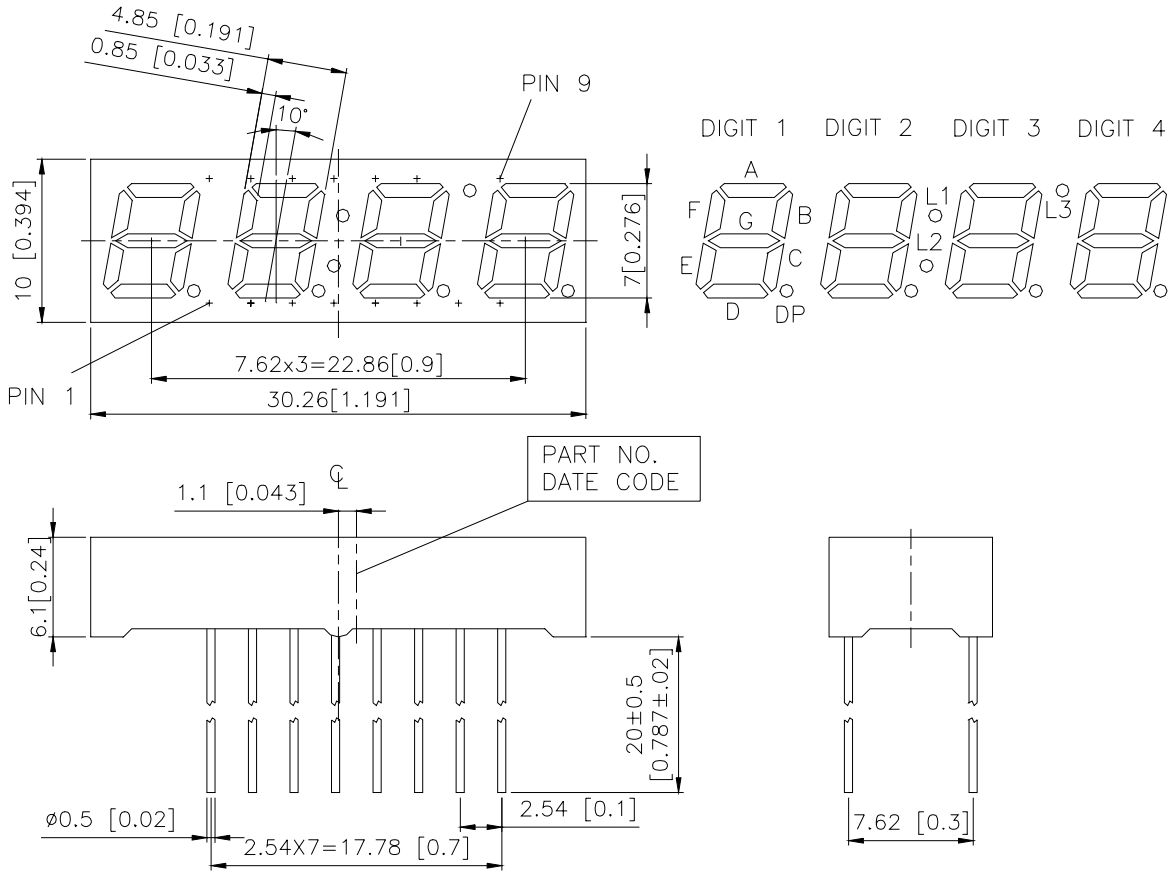
DESCRIPTION

The LTC-2623P-05 is a 0.28 inch (7.0 mm) digit height quadruple digit display. This device uses BRIGHT RED LED chips (GaP epi on GaP substrate). The display has gray face and white segments.

DEVICE

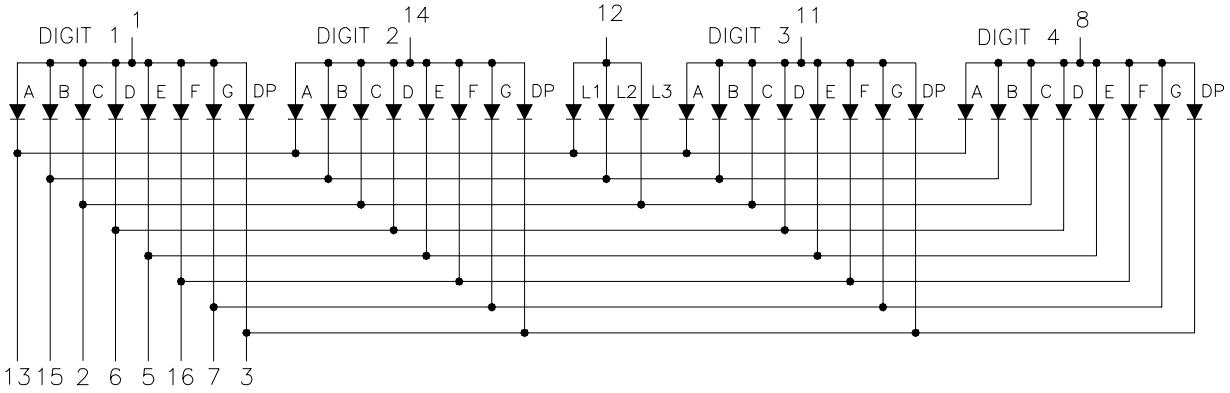
PART NO.	DESCRIPTION
BRIGHT RED	Multiplex Common Anode
LTC-2623P-05	Rt. Hand Decimal

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are ± 0.25mm (0.01“) unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	Common Anode (Digit 1)
2	Cathode C, L3
3	Cathode DP
4	No Connection
5	Cathode E
6	Cathode D
7	Cathode G
8	Common Anode (Digit 4)
9	No Connection
10	No Pin
11	Common Anode (Digit 3)
12	Common Anode L1, L2, L3
13	Cathode A, L1
14	Common Anode (Digit 2)
15	Cathode B, L2
16	Cathode F

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	40	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	60*	mA
Continuous Forward Current Per Segment Forward Current Derating from 25^0C	15 0.2	mA mA/^{0}C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35^0C to +85^0C	
Storage Temperature Range	-35^0C to +85^0C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260^0C		

* see figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25^oC

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I_V	320	750		μcd	I_F = 10mA
Peak Emission Wavelength	λp		697		nm	I_F = 20mA
Spectral Line Half-Width	Δλ		90		nm	I_F = 20mA
Dominant Wavelength	λd		657		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 = 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)

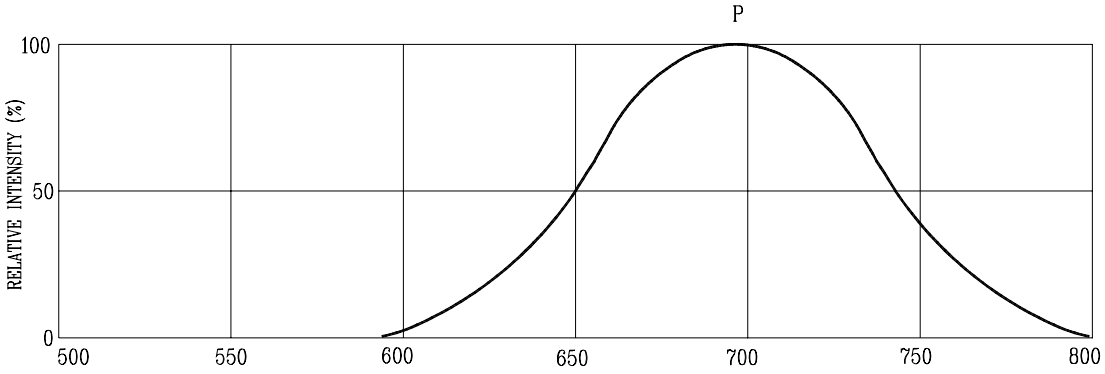


Fig1.Spectral Emission

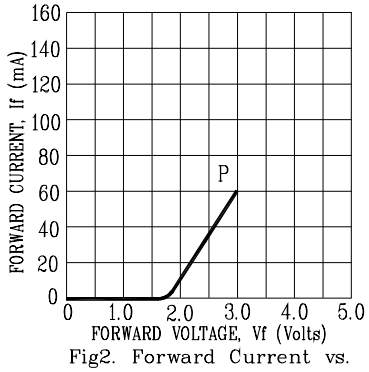


Fig2. Forward Current vs. Forward Voltage

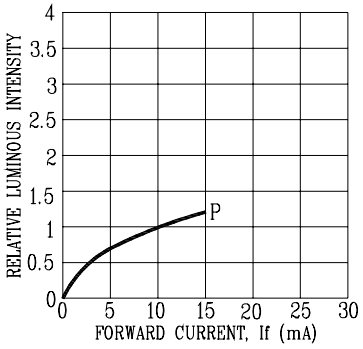


Fig3. Relative Luminous Intensity vs. DC Forward Current

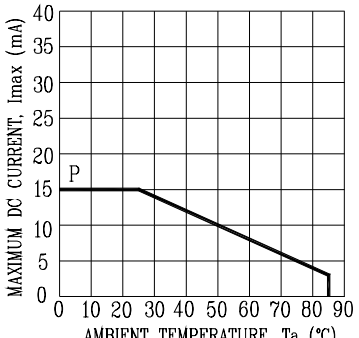


Fig4. Maximun Allowable DC Current vs. Ambient Temperature

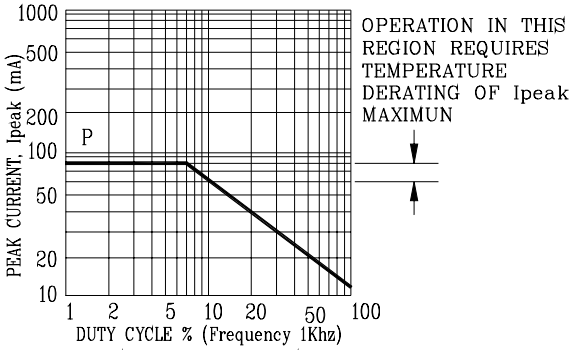


Fig5. Maximum Peak Current vs. Duty Cycle %

NOTE : P=BRIGHT RED