

FEATURES

- * 0.52 inch (13.2 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)**

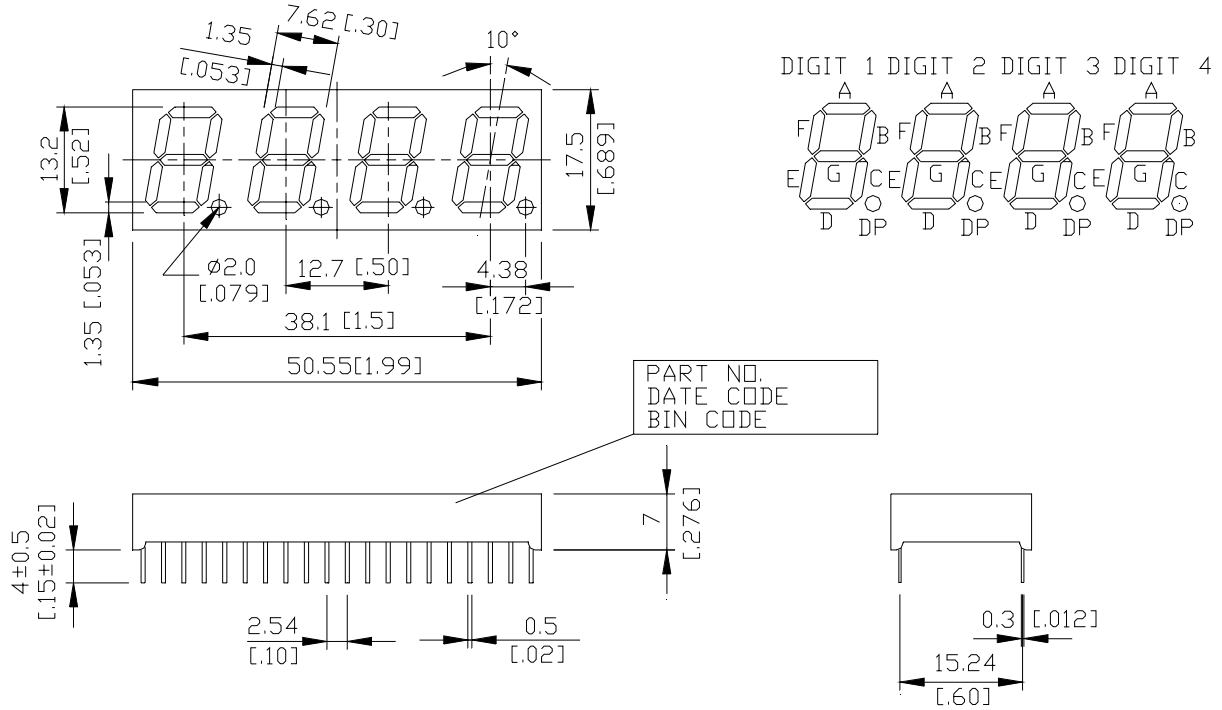
DESCRIPTION

The LTC-5837Y is a 0.52 inch (13.2 mm) digit height quadruple digit seven-segment display. This device uses yellow LED chips(GaAsP epi on GaP substrate). The display has gray face and white segments.

DEVICE

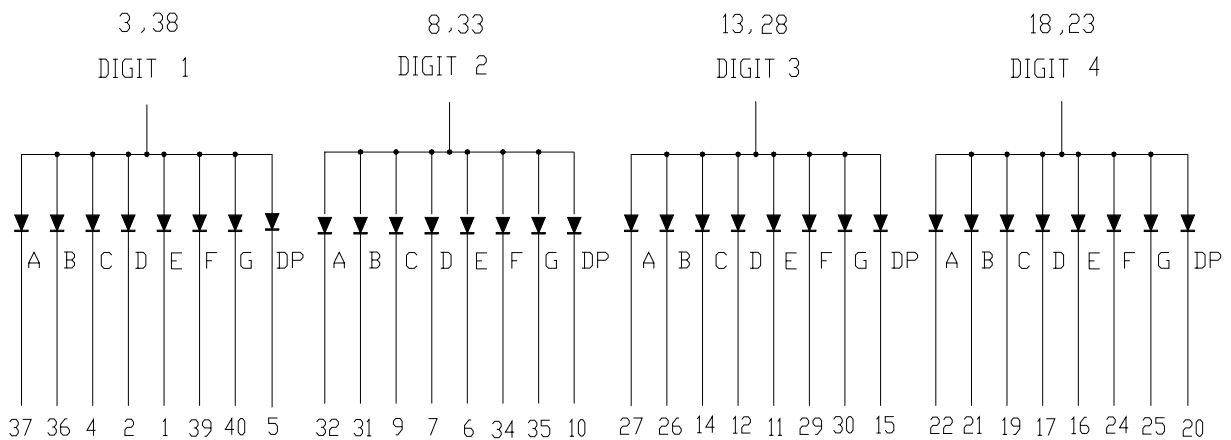
PART NO.	DESCRIPTION
Yellow	Common Anode
LTC-5837Y	Rt. Hand Decimal

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	NO.	CONNECTION
1	Cathode E (Digit 1)	21	Cathode B (Digit 4)
2	Cathode D (Digit 1)	22	Cathode A (Digit 4)
3	Common Anode (Digit 1)	23	Common Anode (Digit 4)
4	Cathode C (Digit 1)	24	Cathode F (Digit 4)
5	Cathode D.P. (Digit 1)	25	Cathode G (Digit 4)
6	Cathode E (Digit 2)	26	Cathode B (Digit 3)
7	Cathode D (Digit 2)	27	Cathode A (Digit 3)
8	Common Anode (Digit 2)	28	Common Anode (Digit 3)
9	Cathode C (Digit 2)	29	Cathode F (Digit 3)
10	Cathode D.P. (Digit 2)	30	Cathode G (Digit 3)
11	Cathode E (Digit 3)	31	Cathode B (Digit 2)
12	Cathode D (Digit 3)	32	Cathode A (Digit 2)
13	Common Anode (Digit 3)	33	Common Anode (Digit 2)
14	Cathode C (Digit 3)	34	Cathode F (Digit 2)
15	Cathode D.P. (Digit 3)	35	Cathode G (Digit 2)
16	Cathode E (Digit 4)	36	Cathode B (Digit 1)
17	Cathode D (Digit 4)	37	Cathode A (Digit 1)
18	Common Anode (Digit 4)	38	Common Anode (Digit 1)
19	Cathode C (Digit 4)	39	Cathode F (Digit 1)
20	Cathode D.P. (Digit 4)	40	Cathode G (Digit 1)

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	60	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	80*	mA
Continuous Forward Current Per Segment	20	mA
Forward Current Derating from 25 ⁰ C	0.27	mA/
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 to +85	
Storage Temperature Range	-35 to +85	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 ⁰ C		

* see figure 5 to establish pulsed condition

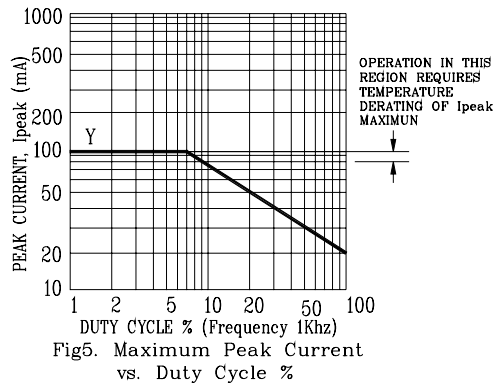
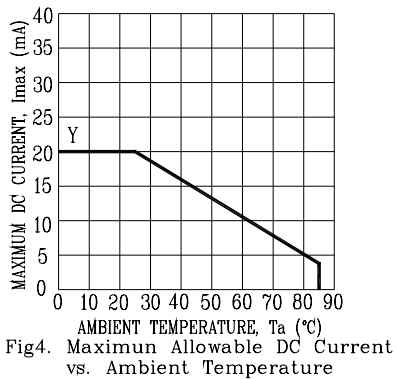
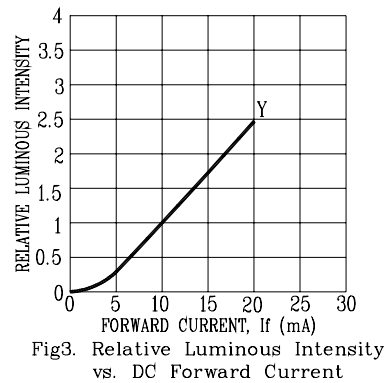
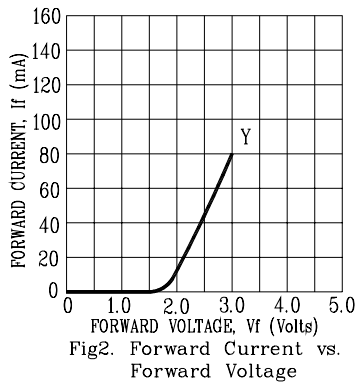
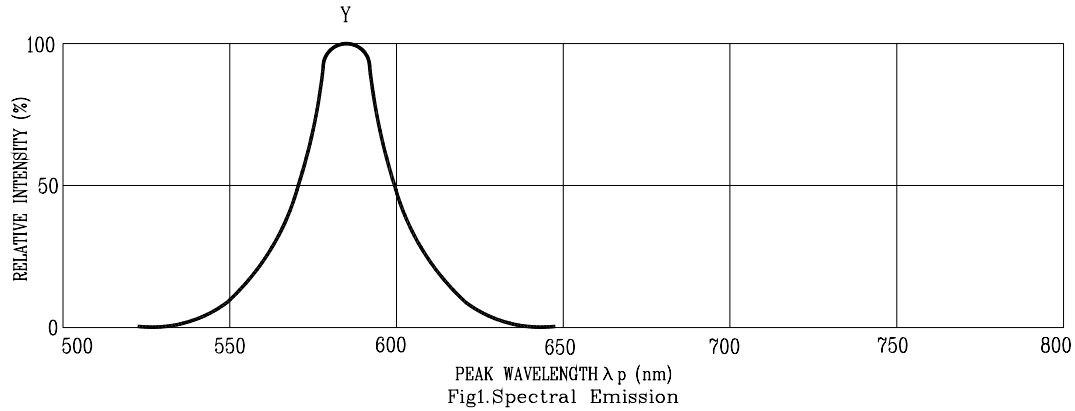
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25⁰C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		585		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λ _d		588		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 (Similar Light Area)	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 : Y= YELLOW