### LITEON LITE-ON ELECTRONICS, INC.

### Property of Lite-On Only

#### **FEATURES**

- \*0.56 inch (14.2 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.

#### **DESCRIPTION**

The LTC-5723Y is a 0.56 inch (14.2 mm) digit height quadruple digit seven-segment display. This device utilizes yellow LED chips, which are made from GaAsP on a transparent GaP substrate, and has a gray face and white segments.

#### **DEVICE**

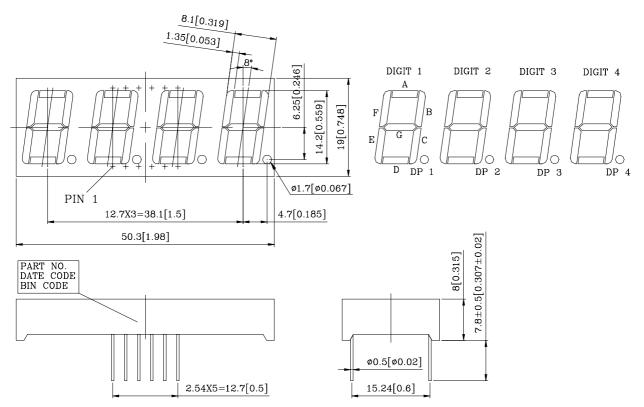
PART NO.	DESCRIPTION			
Yellow	Multiplex Common Cathode			
LTC-5723Y	Rt. Hand Decimal			

PART NO.: LTC-5723Y PAGE: 1 of 5

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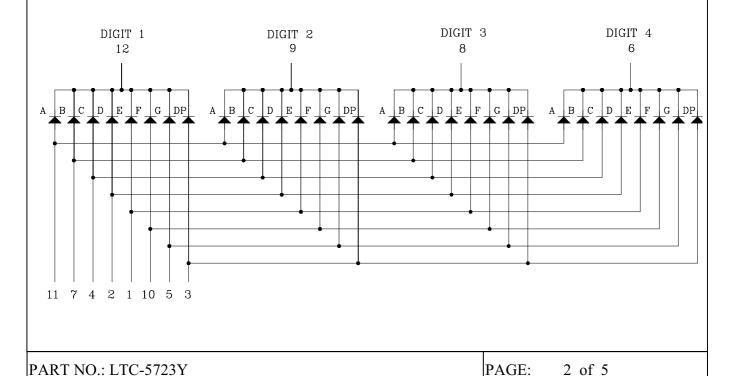
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#### **PACKAGE DIMENSIONS**



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

#### INTERNAL CIRCUIT DIAGRAM



BNS-OD-C131/A4



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#### **PIN CONNECTION**

No.	CONNECTION					
1	ANODE E					
2	ANODE D					
3	ANODE D.P.					
4	ANODE C					
5	ANODE G					
6	COMMON CATHODE (DIGIT 4)					
7	ANODE B					
8	COMMON CATHODE (DIGIT 3)					
9	COMMON CATHODE (DIGIT 2)					
10	ANODE F					
11	ANODE A					
12	COMMON CATHODE (DIGIT 1)					

PAGE: 3 of 5 PART NO.: LTC-5723Y



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#### ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	60	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA			
Continuous Forward Current Per Segment	20	mA			
Derating Linear From 25°C Per Segment	0.27	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 below seating plane.					

#### ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

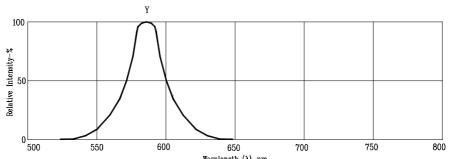
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	870	2400		μcd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λр		585		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		35		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		588		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1	-	I <sub>F</sub> =10mA

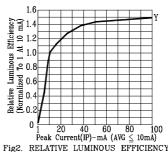
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

PART NO.: LTC-5723Y PAGE: 4 of 5

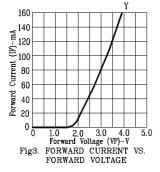
#### TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

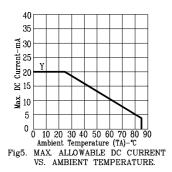
(25°C Ambient Temperature Unless Otherwise Noted)



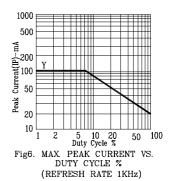


0 1 20 40 60 80 100
Peak Current(IP)-mA (AVG ≦ 10mA)
Fig2. RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT
(REFRESH RATE 1KHz)





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NOTE : Y=YELLOW

PART NO.: LTC-5723Y PAGE: 5 of 5