

**Property of Lite-On Only** 

#### **FEATURES**

- \* 0.28 INCH (7.0 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-2723P is a 0.28 inch (7.0 mm) height quadruple digit seven-segment display. This device utilizes bright red LED chips, which are made from GaP on a transparent GaP substrate, and has a gray face and white segments.

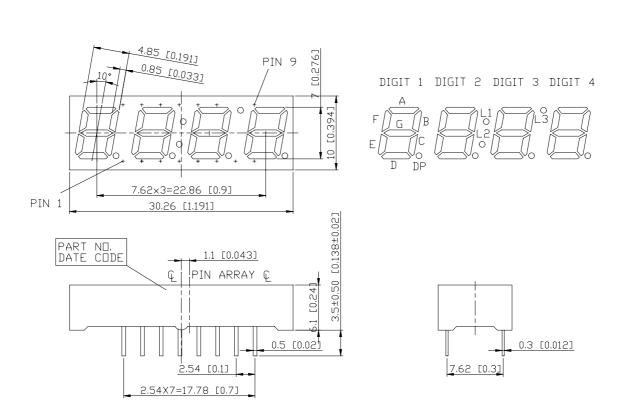
#### **DEVICE**

PART NO.	DESCRIPTION				
BRIGHT RED	Multiplex Common Cathode				
LTC-2723P	Rt. Hand Decimal				

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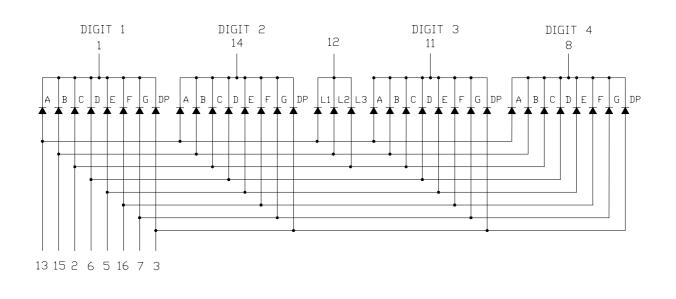
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### **PACKAGE DIMENSIONS**



NOTES: All dimensions are in millimeters. Tolerances are  $\pm$  0.25-mm (0.01") unless otherwise noted.

### INTERNAL CIRCUIT DIAGRAM



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### **PIN CONNECTION**

No.	CONNECTION			
1	COMMON CATHODE DIGIT 1			
2	ANODE C, L3			
3	ANODE D.P.			
4	NO CONNECTION			
5	ANODE E			
6	ANODE D			
7	ANODE G			
8	COMMON CATHODE DIGIT 4			
9	NO CONNECTION			
10	NO PIN			
11	COMMON CATHODE DIGIT 3			
12	COMMON CATHODE L1,L2,L3			
13	ANODE A,L1			
14	COMMON CATHODE DIGIT 2			
15	ANODE B,L2			
16	ANODE F			

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### ABSOLUTE MAXIMUM RATING AT T<sub>A</sub>=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	40	mW			
Peak Forward Current Per Segment ( 1/10 Duty Cycle, 0.1ms Pulse Width )	60	mA			
Continuous Forward Current Per Segment	15	mA			
Derating Linear From 25 <sup>o</sup> C Per Segment	0.20	mA/ <sup>0</sup> C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35 <sup>0</sup> C to +85 <sup>0</sup> C				
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

### ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}C$

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	750		μcd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λр		697		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		90		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		657		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.

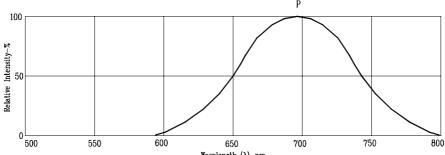
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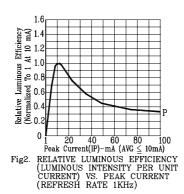
### LITE-ON ELECTRONICS, INC.

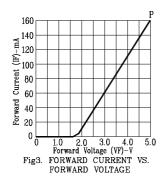
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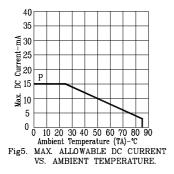
### TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

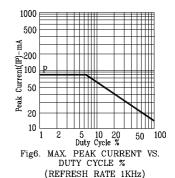








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NOTE: P=BRIGHT RED

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