



Spec No.: DS-30-99-453 Effective Date: 05/20/2000 Revision: -



BNS-OD-FC001/A4

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FEATURES

* 1.0 inch (25.4 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 LTS-10304P is a 1.0 inch (25.4 mm) digit height single digit seven-segment display. This device utilizes bright red LED chips, which are made from GaP on a transparent GaP substrate, and has a black face and white segments.

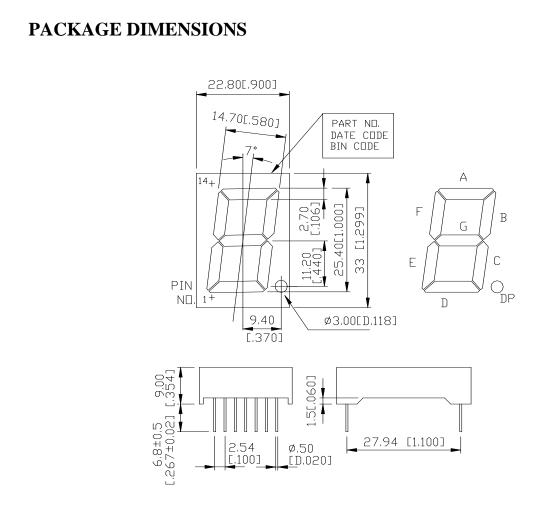
DEVICE

PART NO.	DESCRIPTION		
BRIGHT RED	COMMON CATHODE		
LTS-10304P	RT. HAND DECIMAL		

LITEON

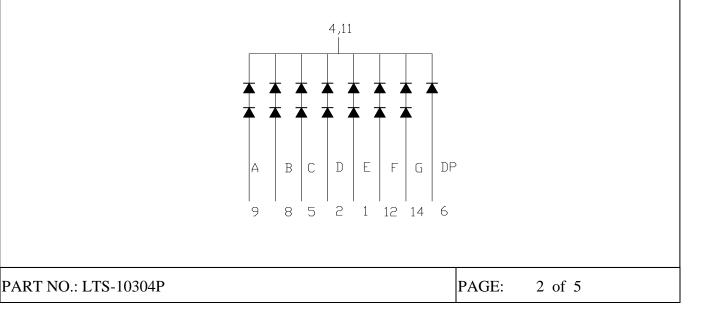
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NOTES: All dimensions are in millimeters. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

PART NO.: LTS-10304P

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	70(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°C Per Segment	0.20	mA/°C			
Reverse Voltage Per Segment	10(5)	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35° C to $+85^{\circ}$ C				
Solder Temperature: max 260° C for max 3sec at 1.6mm[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

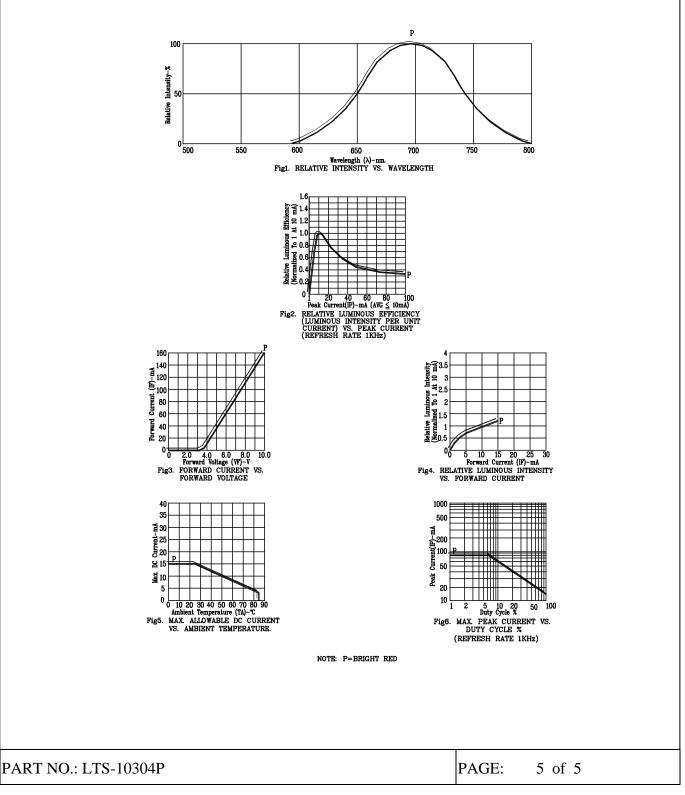
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1200	2500		μcd	IF=10mA
Peak Emission Wavelength	λp		697		nm	IF=20mA
Spectral Line Half-Width	Δλ		90		nm	IF=20mA
Dominant Wavelength	λd		657		nm	IF=20mA
Forward Voltage Per Segment	V_{F}		4.2 (2.1)	5.2 (2.6)	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =10V(5V)
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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)



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