LITEON LITE-ON ELECTRONICS, INC.

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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-10804WC is a 1.0-inch (25.4-mm) digit height single digit low current seven-segment display. This device utilizes AlGaAs red LED chips, which are made from AlGaAs on a non-transparent GaAs substrate, and has a black face and white segments.

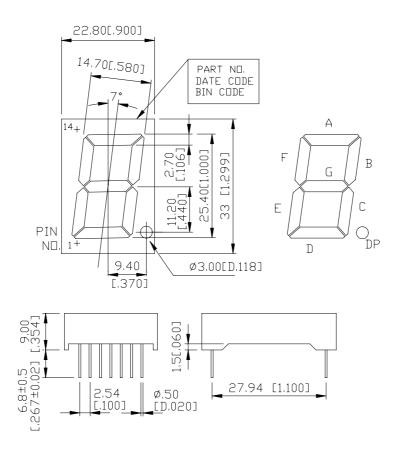
This low current seven-segment display is designed to perform under low power consumption. It is tested and selected for it's excellent low current characteristics. It can be driven in low current condition and the segments are matched. This driving current as low as 1mA per segment is applicable.

DEVICE

PART NO.	DESCRIPTION			
AlGaAs RED	COMMON ANODE			
LTS-10804WC	RT. HAND DECIMAL			

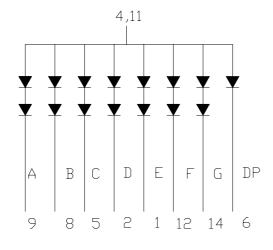
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	120(75)	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	125	mA			
Continuous Forward Current Per Segment	30	mA			
Derating Linear From 25°C Per Segment	0.4	mA/°C			
Reverse Voltage Per Segment	10(5)	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range -35°C to $+85^{\circ}\text{C}$					
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
	Iv	410	1200		μcd	I _F =1mA
Average Luminous Intensity			7500		μcd	I _F =5mA
Peak Emission Wavelength	λр		660		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λd		638		nm	I _F =20mA
Forward Voltage Per Segment	VF		3.2		V	I _F =1mA
			(1.6)			
			3.4	4.8		I _F =5mA
			(1.7)	(2.4)		
			3.6			I=20mA
			(1.8)			
Reverse Current Per Segment	Ir			100	μΑ	$V_R = 10V(5V)$
Luminous Intensity Matching Ratio	Iv-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.

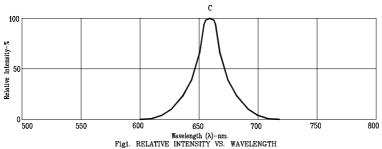
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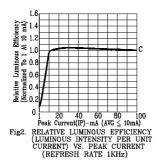
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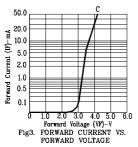
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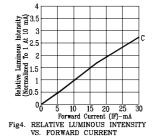
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

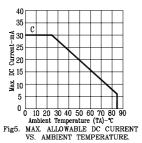
(25°C Ambient Temperature Unless Otherwise Noted)

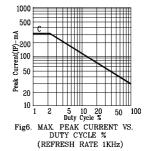












NOTE: C=AlGaAs RED

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