Property of Lite-On Only

FEATURES

- *0.4-INCH (10mm) 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 LTD-4401WC-R1 is a 0.4 inch (10mm) digit height dual 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 gray 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.

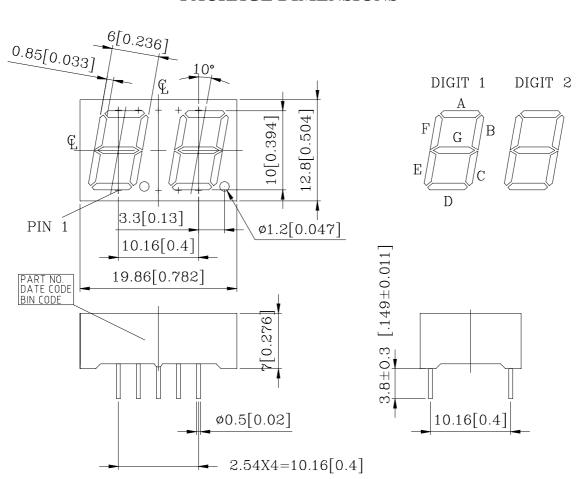
DEVICE

PART NO.	DESCRIPTION
AlGaAs RED	
LTD-4401WC-R1	Dualplex Common Anode

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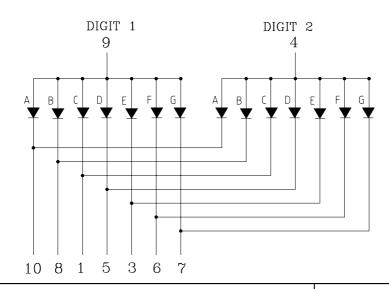
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PACKAGE DIMENSIONS



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 C				
2	NO PIN				
3	CATHODE E				
4	COMMON ANODE (DIGIT 2)				
5	CATHODE D				
6	CATHODE F				
7	CATHODE G				
8	CATHODE B				
9	COMMON ANODE (DIGIT 1)				
10	CATHODE A				

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation Per Segment	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 ^o C Per Segment	0.4	mA/ ⁰ C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35° C to $+85^{\circ}$ C			
Storage Temperature Range	-35° C to $+85^{\circ}$ C			
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ^o C				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

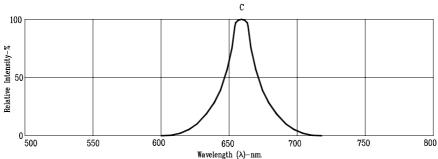
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	650		μcd	I _F =1mA
			3400		μcd	I _F =5mA
Peak Emission Wavelength	λр		660		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λd		638		nm	I _F =20mA
Forward Voltage Per Segment	VF		1.6			I _F =1mA
			1.7	2.4	V	I _F =5mA
			1.8			I _F =20mA
Reverse Current Per Segment	Ir			10	μΑ	$V_R=5V$
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

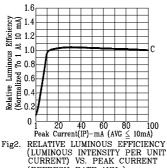
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

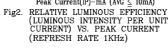
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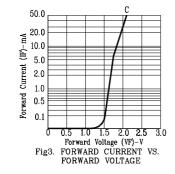
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

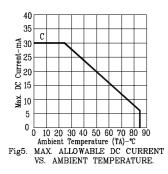
(25°C Ambient Temperature Unless Otherwise Noted)

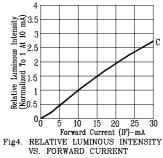












1000 500 mA Peak Current(IP)-m 00 00 00 00 00 00

1 2 5 10 20 50 1
Duty Cycle %
Fig6. MAX. PEAK CURRENT VS.
DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: C=AlGaAs RED

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