LITEON

LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- *0.28 inch (7 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 LTD-2601WC is a 0.28 inch (7 mm) digit height dual digit 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. The AlGaAs red seven segment displays are designed for applications requiring low power consumption. They are tested and selected for the excellent low current characteristics to ensure that the segments are matched at low current. Drive current as low as 1 mA per segment is available.

DEVICE

PART NO.	DESCRIPTION		
AlGaAs Red	Duplex Common Anode		
LTD-2601WC	Rt. Hand Decimal		

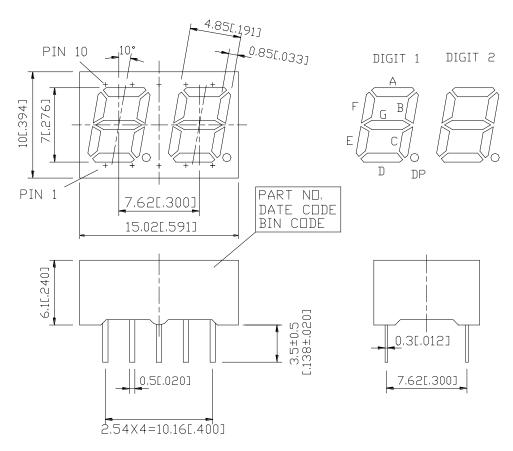
PART NO.: LTD-2601WC PAGE: 1 of 5

LITEON

LITE-ON ELECTRONICS, INC.

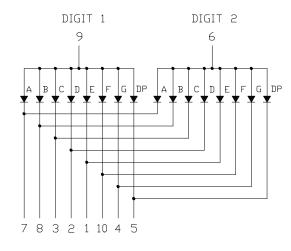
Property of Lite-On Only

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PART NO.: LTD-2601WC PAGE: 2 of 5

BNS-OD-C131/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

PIN CONNECTION

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

PART NO.: LTD-2601WC PAGE: 3 of 5

BNS-OD-C131/A4

LITEON LITE-ON ELECTRONICS, INC.

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°C Per Segment	0.4	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
	Iv	200	600		μcd	I _F =1mA
Average Luminous Intensity			3100		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
	VF		1.6			I _F =1mA
Forward Voltage Per Segment			1.7	2.4	V	I _F =5mA
			1.8			I _F =20mA
Reverse Current Per Segment	IR			100	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.

PART NO.: LTD-2601WC	PAGE:	4 of 5
----------------------	-------	--------

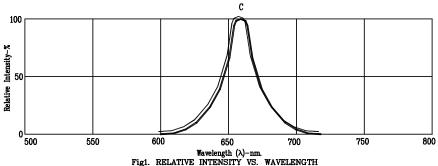
BNS-OD-C131/A4

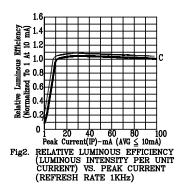
LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

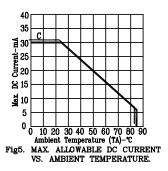
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



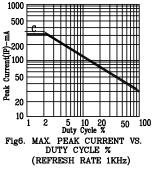


50.0 20.0 Forward Current (IF)-mA 10.0 5.0 2.0 1.0 0.5 0.1 0.5 1.0 1.5 2.0 2.5 3 Forward Voltage (VF)-V FORWARD CURRENT VS. FORWARD VOLTAGE



≘ 3 ₽ 2 현 1.5 대 1 10

Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: C=AlGaAs RED

PART NO.: LTD-2601WC PAGE: 5 of 5