



Spec No.: DS-30-97-014Effective Date: 01/13/2005

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.52 inch (13.2mm) 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
- *LEAD-FREE PACKAGE (ACCORDING TO ROHS)

DESCRIPTION

The LTD-5250WC is a 0.52 inch (13.2 mm) height digit display. This device uses LED chips(AlGaAs epi on GaAs substrate). The display has gray face and white segments.

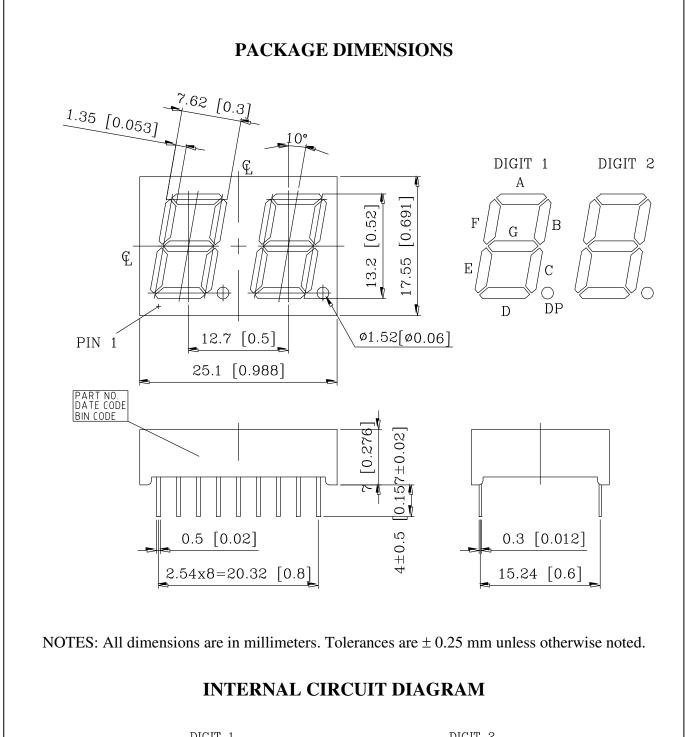
The low current seven segment displays are designed for applications requiring low power consumption. They are tested and selected for their excellent low current characteristics to ensure that the segments are matched at low current. Drive current as 1 mA per segment is available.

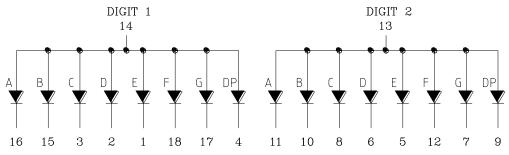
DEVICE

PART NO.	DESCRIPTION				
AlGaAs Red	COMMON ANODE				
LTD-5250WC	RT. HAND DECIMAL				

PAGE: PART NO.: LTD-5250WC 1 of 5

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PAGE: 2 of 5 PART NO.: LTD-5250WC



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PIN CONNECTION

No.	CONNECTION		
1	CATHODE E (DIGIT 1)		
2	CATHODE D (DIGIT 1)		
3	CATHODE C (DIGIT 1)		
4	CATHODE DP (DIGIT 1)		
5	CATHODE E (DIGIT 2)		
6	CATHODE D (DIGIT 2)		
7	CATHODE G (DIGIT 2)		
8	CATHODE C (DIGIT 2)		
9	CATHODE DP (DIGIT 2)		
10	CATHODE B (DIGIT 2)		
11	CATHODE A (DIGIT 2)		
12	CATHODE F (DIGIT 2)		
13	COMMON ANODE (DIGIT 2)		
14	COMMON ANODE (DIGIT 1)		
15	CATHODE B (DIGIT 1)		
16	CATHODE A (DIGIT 1)		
17	CATHODE G (DIGIT 1)		
18	CATHODE F (DIGIT 1)		

PAGE: PART NO.: LTD-5250WC 3 of 5



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ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Chip	75	mW			
Peak Forward Current Per Chip (Frequency 1Khz, 10% duty cycle)	125*	mA			
Continuous Forward Current Per Chip Forward Current Derating from 25 ^o C	30 0.4	mA mA/°C			
Reverse Voltage Per Chip	5	V			
Operating Temperature Range	ng Temperature Range -35°C to +85°C				
Storage Temperature Range -35°C to +85°C					
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C					

^{*} see figure 5 to establish pulsed condition

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	3400	7500		μcd	I _F =1mA
Peak Emission Wavelength	λρ		630		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		621		nm	I _F =20mA
Forward Voltage Per Chip	V_{F}		2.0	2.6	V	I _F =20mA
Reverse Current Per Chip	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =1mA

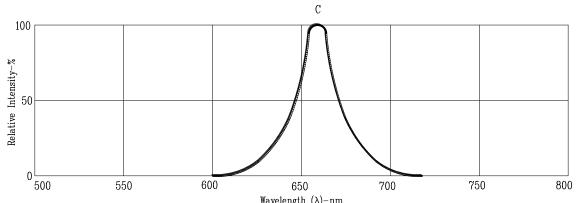
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

PART NO.: LTD-5250WC	PAGE:	4 of 5
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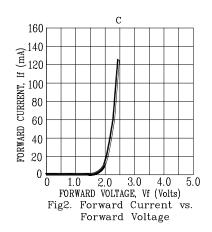
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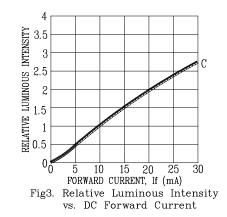
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

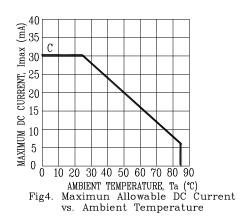
(25°C Ambient Temperature Unless Otherwise Noted)

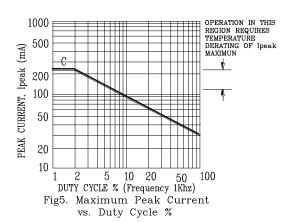


 $\label{eq:wavelength} \mbox{Wavelength } (\lambda)-\mbox{nm}.$ Fig1. RELATIVE INTENSITY VS. WAVELENGTH









NOTE: C=AlGaAs RED

PART NO.: LTD-5250WC PAGE: 5 of 5