imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Spec No.: DS-30-98-245 Effective Date: 04/21/2000 Revision: -



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

Property of Lite-on Only

FEATURES

* 0.56-INCH (14.22-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-5003AWC is a 0.56-inch (14.22-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 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.

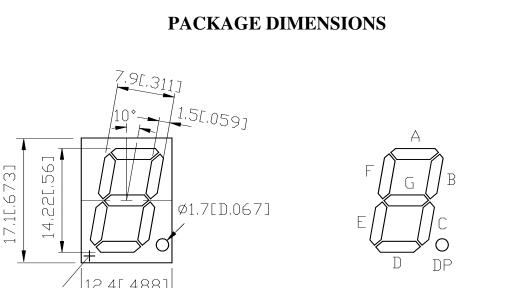
DEVICE

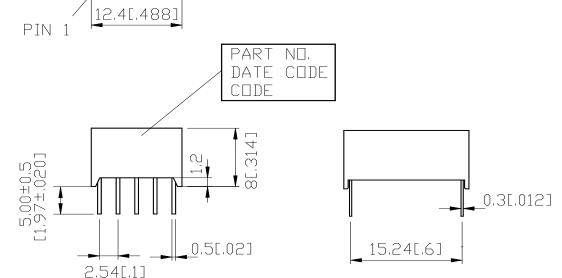
PART NO.	DESCRIPTION		
AlGaAs RED	Common Cathode		
LTS-5003AWC	Rt. Hand Decimal		

PART NO.: LTS-5003AWC

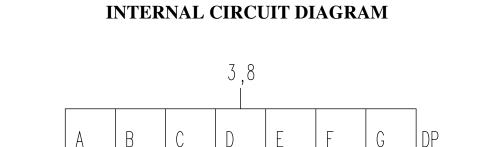


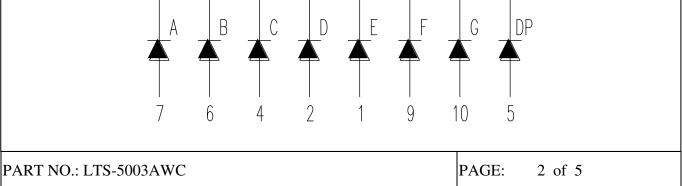
Property of Lite-on Only





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





BNS-OD-C131/A4



Property of Lite-on Only

PIN CONNECTION

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

NOTE: Pin 3 & 8 ARE INTERNALLY CONNECTED

PART NO.: LTS-5003AWC

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

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

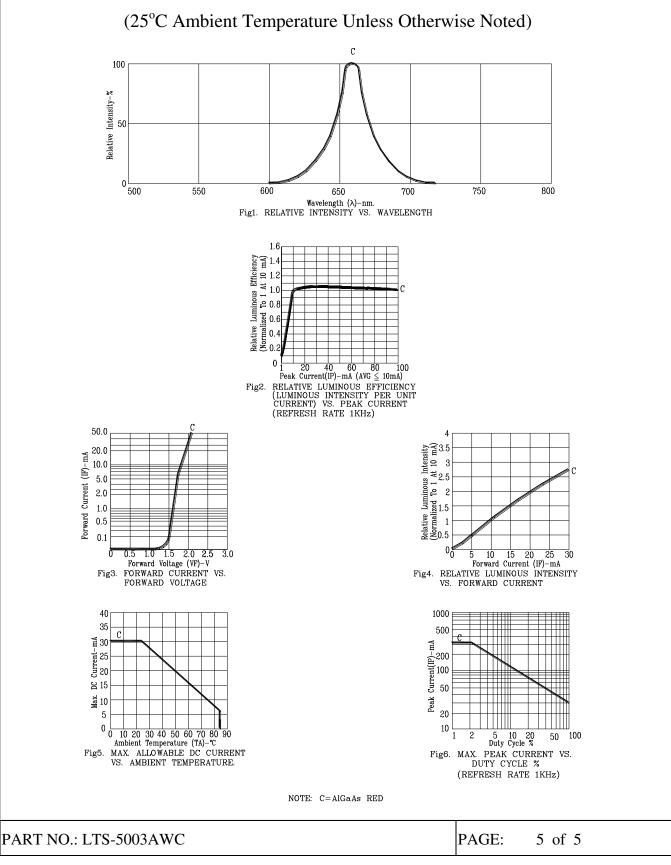
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
	Iv	320	700		μcd	IF=1mA
Average Luminous Intensity			3750		μcd	IF=5mA
Peak Emission Wavelength	λp		660		nm	IF=20mA
Spectral Line Half-Width	Δλ		35		nm	IF=20mA
Dominant Wavelength	λd		638		nm	IF=20mA
	VF		1.6		V	IF=1mA
Forward Voltage Per Segment			1.7	2.4		IF=5mA
			1.8			IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	Vr=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'clariage) eye-response curve.

PART NO.: LTS-5003AWC	PAGE:	4 of 5

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



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