

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











Spec No.: DS-30-96-165 Effective Date: 04/19/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- *0.4-inch (10.16mm) 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

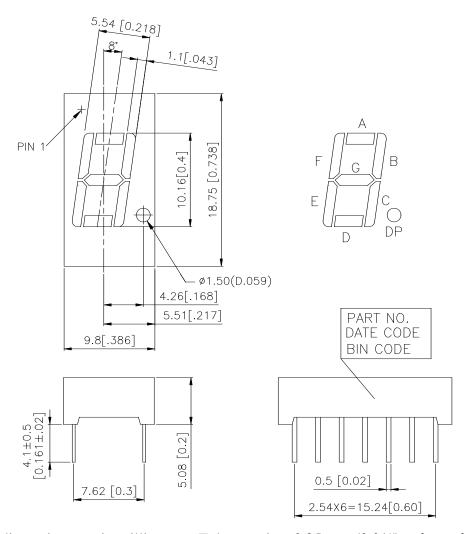
The LTS-4510AG is a 0.4-inch (10.16mm) digit height single digit seven-segment display. This device utilizes green LED chips, which are made from GaP on GaP substrate, and has a gray face and white segments.

DEVICE

PART NO.	DESCRIPTION		
GREEN	Common Anode		
LTS-4510AG	Rt. Hand Decimal		

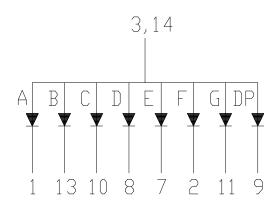
PAGE: PART NO.:LTS-4510AG 1 of 5 Property of Lite-On Only

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PART NO.:LTS-4510AG PAGE: 2 of 5

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

PIN CONNECTION

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

PAGE: PART NO.:LTS-4510AG 3 of 5

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)	100	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25°C Per Segment	0.33	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[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

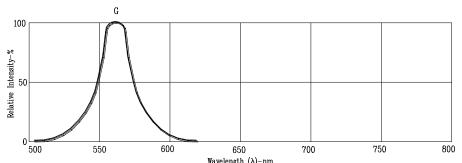
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λр		565		nm	IF=20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	I _F =20mA
Reverse 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.

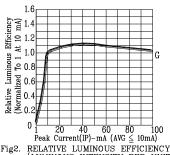
PART NO.:LTS-4510AG PAGE: 4 of 5

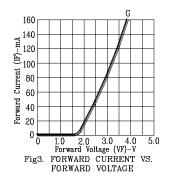
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

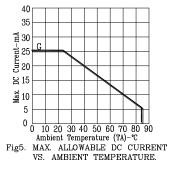
(25°C Ambient Temperature Unless Otherwise Noted)



Wavelength (λ)-nm.
Fig1. RELATIVE INTENSITY VS. WAVELENGTH







15 Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY

VS. FORWARD CURRENT

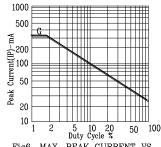


Fig6. MAX. PEAK CURRENT VS.
DUTY CYCLE %
(REFRESH RATE 1KHz)

NOTE: G=GREEN

PAGE: PART NO.:LTS-4510AG 5 of 5