

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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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

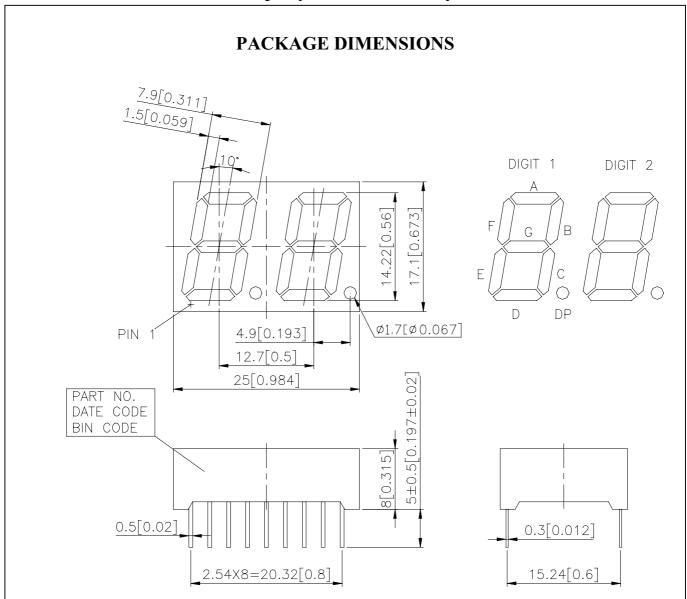
The LTD-5523AB is a 0.56 inch (14.22 mm) digit height dual digit seven-segment display. The device utilizes blue chips, which are made from GaN on a SiC substrate, and has a gray face and white segments.

DEVICE

PART NO	DESCRIPTION				
BLUE	COMMON CATHODE				
LTD-5523AB	RT. HAND DECIMAL				

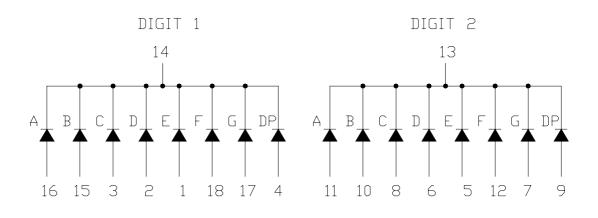
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NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25 mm unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	95	mW			
Peak Forward Current Per Segment	60				
(1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 ^o C Per Segment	0.33	mA/ ⁰ 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 1/16 inch Below Seating Plane for 3 Seconds at 260 ^o C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

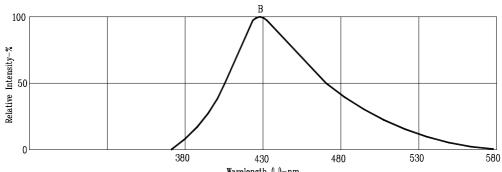
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1300	4300		μcd	I _F =10mA
Peak Emission Wavelength	λр		428		nm	I _F =20mA
Spectral Line Half-Width	Δλ		65		nm	I _F =20mA
Dominant Wavelength	λd		466		nm	I _F =20mA
Forward Voltage Per Segment	VF		3.8	4.5	V	I _F =20mA
Reverse 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.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



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

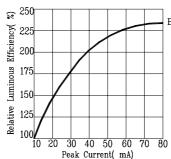


Fig2. RELATIVE LUMINOUS EFFICIENCY VS. PEAK FORWARD CURRENT (250us pulse width; 2ms period)

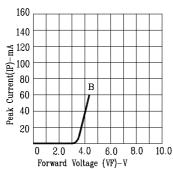


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

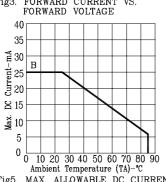
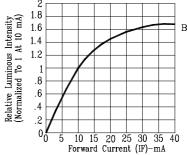
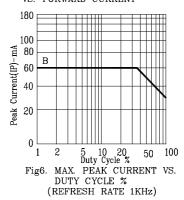


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.



RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



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