LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- *0.52 inch (13.2 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

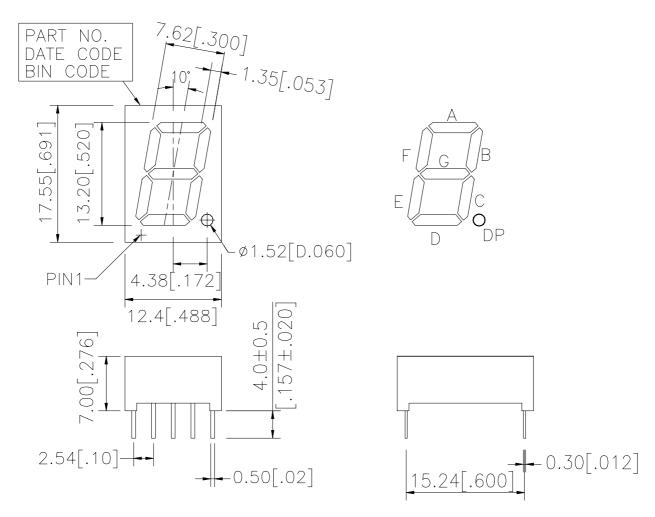
The LTS-546AG is a 0.52 inch (13.2 mm) digit height single digit seven-segment display. This device utilizes green LED chips, which are made from GaP on a transparent GaP substrate, and has a gray face and green segments.

DEVICE

PART NO.	DESCRIPTION		
Green	Common Anode		
LTS-546AG	Rt. Hand Decimal		

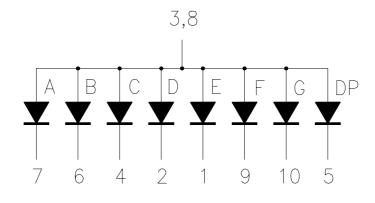
PART NO.: LTS-546AG PAGE: 1 of 5 Property of Lite-On Only

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PART NO.: LTS-546AG PAGE: 2 of 5

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PIN CONNECTION

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

PAGE: 3 of 5 PART NO.: LTS-546AG



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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 below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

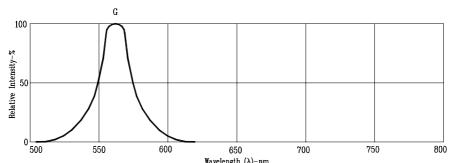
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λр		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	I _F =20mA
Reverse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

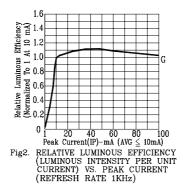
PART NO.: LTS-546AG PAGE: 4 of 5

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

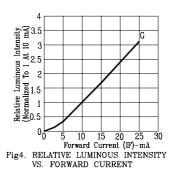
(25°C Ambient Temperature Unless Otherwise Noted)

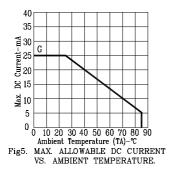


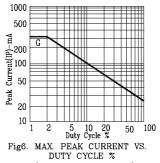
 $\label{eq:wavelength} \begin{tabular}{lll} Wavelength (λ)-nm. \\ Fig1. RELATIVE INTENSITY VS. WAVELENGTH \\ \end{tabular}$



140 120 100 Forward Current 80 60 40 20 0 1.0 2.0 3.0 4.0
Forward Voltage (VF)-V
Fig3. FORWARD CURRENT
FORWARD VOLTAGE







(REFRESH RATE 1KHz)

NOTE: G=GREEN

PAGE: PART NO.: LTS-546AG 5 of 5