



Spec No.: DS30-2000-320 Effective Date: 06/05/2010 Revision: B



BNS-OD-FC001/A4

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## LITEON LITE-ON TECHNOLOGY CORPORATION 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-546AJD is a 0.52 inch (13.2 mm) height single digit display. This device utilizes AlInGaP Hyper red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

#### DEVICE

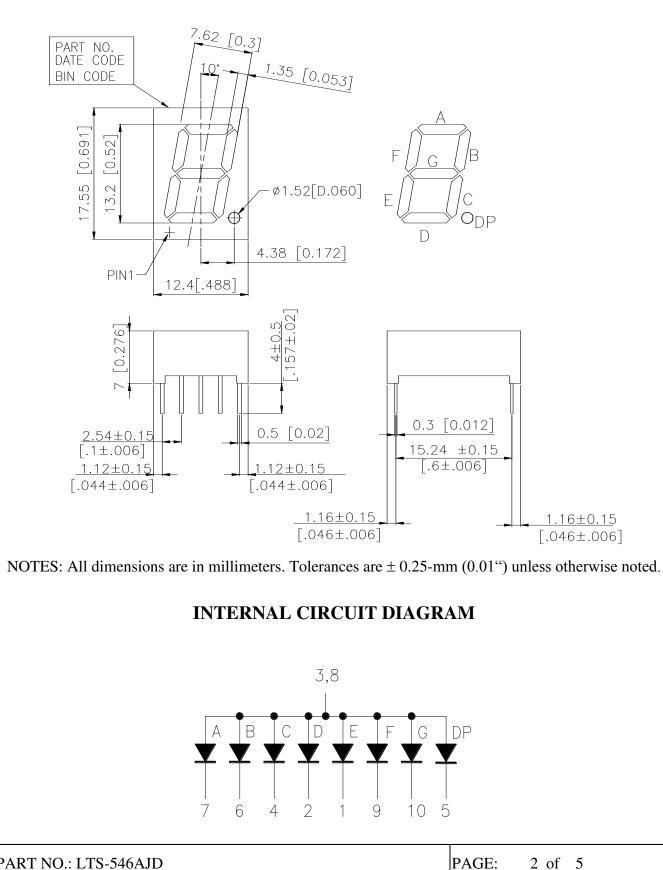
PART NO.	DESCRIPTION
AlInGaP Hyper RED	Common Anode
LTS-546AJD	Rt. Hand decimal

PART NO.: LTS-546AJD

# **LITEON** LITE-ON TECHNOLOGY CORPORATION

**Property of Lite-On Only** 

#### **PACKAGE DIMENSIONS**



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## LITEON LITE-ON TECHNOLOGY CORPORATION Property of Lite-On Only

#### **PIN CONNECTION**

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

PART NO.: LTS-546AJD

# LITEON LITE-ON TECHNOLOGY CORPORATION

### Property of Lite-On Only

#### ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	90	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25 <sup>0</sup> C Per Segment	0.33	mA/ <sup>0</sup> C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C	
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C	
Solder Temperature 1/16 inch Below Seating P	lane for 3 Seconds at 260 <sup>°</sup> C	

### ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

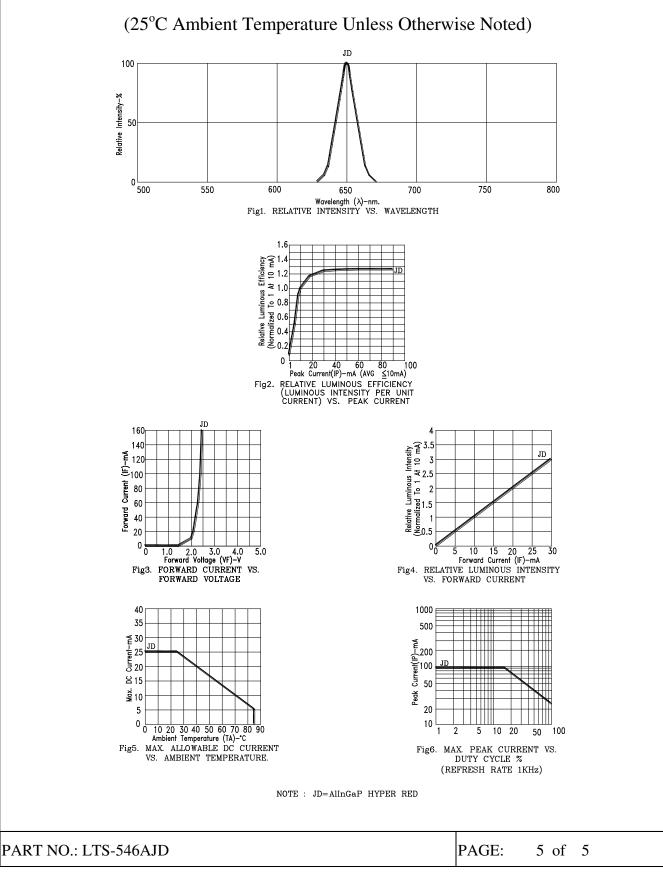
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
	Iv	320	808		μcd	IF=1mA
Average Luminous Intensity			10500			IF=10mA
Peak Emission Wavelength	λp		650		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		639		nm	IF=20mA
Forward Voltage Per Segment	$\mathbf{V}_{\mathrm{F}}$		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V <sub>R</sub> =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'Eclariage) eye-response curve.

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#### **TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**



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