#### **FEATURES**

\* 0.56 inch (14.22 mm ) DIGIT HEIGHT \* EXCELLENT SEGMENT UNIFORMITY \* LOW POWER REQUIREMENT \* HIGH BRIGHTNESS AND HIGH CONTRAST \* WIDE VIEWING ANGLE \* SOLID STATE RELIABILITY \* BINNED FOR LUMINOUS INTENSITY

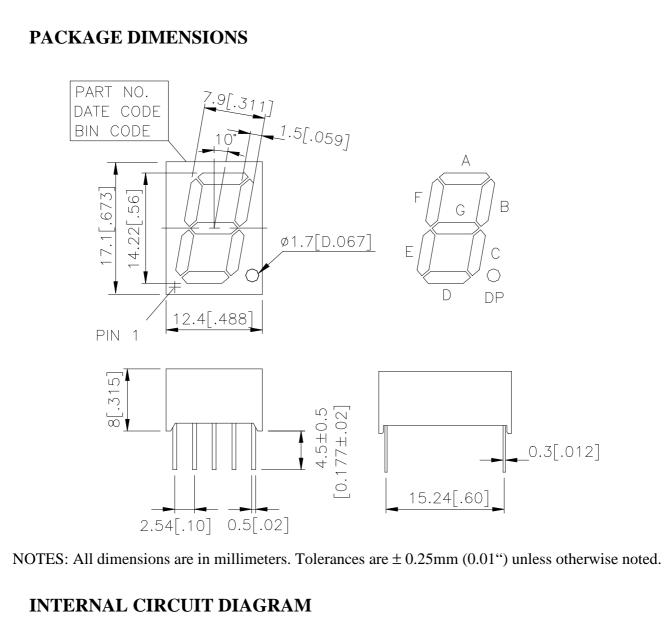
#### DESCRIPTION

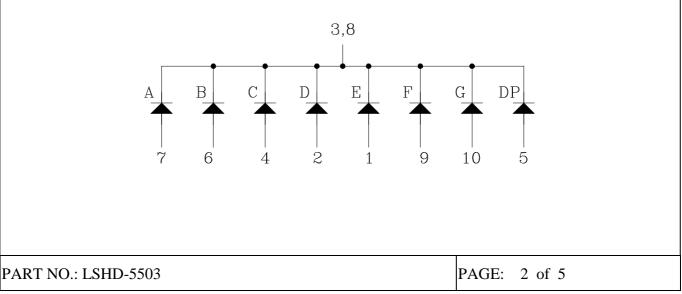
The LSHD-5503 is a 0.56 inch (14.22 mm) digit height single-digit display. This device uses AS-AlInGaP RED LED chips (AlInGaP epi on GaAs substrate). The display has light gray face and white segments.

#### DEVICE

PART NO.	DESCRIPTION				
AlInGaP RED	Common Cathode				
LSHD-5503	Rt. Hand Decimal				

PART NO.: LSHD-5503





#### **PIN CONNECTION**

No.	CONNECTION				
1	Anode E				
2	Anode D				
3	Common Cathode				
4	Anode C				
5	Anode DP				
6	Anode B				
7	Anode A				
8	Common Cathode				
9	Anode F				
10	Anode G				

PART NO.: LSHD-5503

#### **ABSOLUTE MAXIMUM RATING AT Ta = 25^{\circ}C**

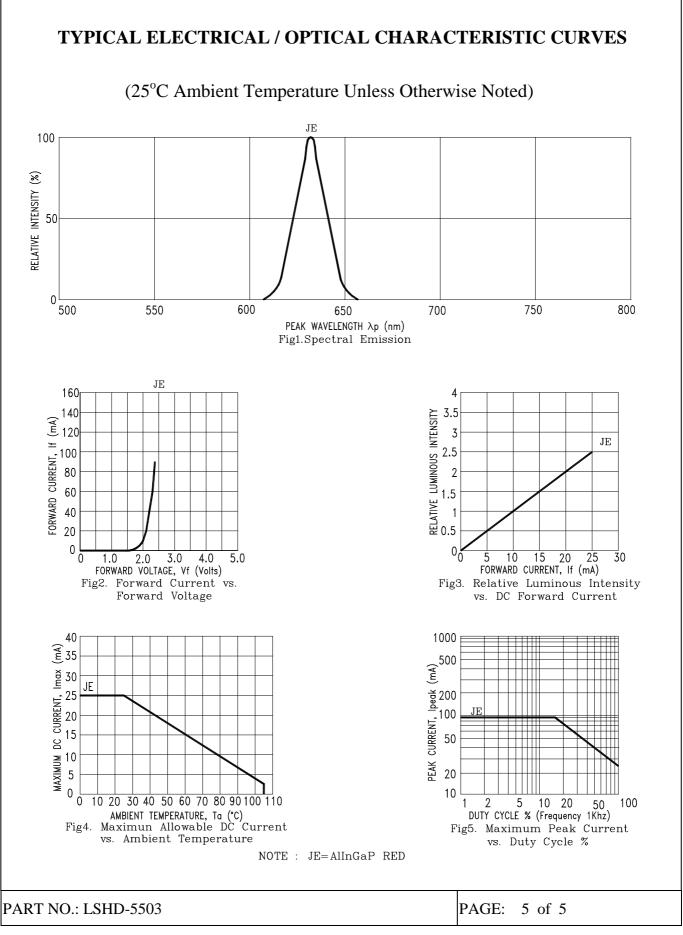
PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	70	mW			
Peak Forward Current Per Segment (Frequency 1Khz, 15% duty cycle)	90	mA			
Continuous Forward Current Per Segment	25	mA			
Forward Current Derating from 25 <sup>0</sup> C	0.28	mA/ <sup>0</sup> C			
Operating Temperature Range	$-35^{\circ}$ C to $+105^{\circ}$ C				
Storage Temperature Range	$-35^{\circ}$ C to $+105^{\circ}$ C				
Soldering Conditions : 1/16 inch below seating plane for 5 seconds at 260 <sup>0</sup> C					

### ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = $25^{\circ}$ C

PARAMETER	SYMBOL	MIN	ТҮР	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	Iv	320	1300		μcd	$I_F = 1mA$
		5400	17000			$I_F = 10 mA$
Peak Emission Wavelength	λp		632		nm	$I_F = 20 m A$
Spectral Line Half-Width	Δλ		20		nm	$I_F = 20 m A$
Dominant Wavelength	λd		624		nm	$I_F = 20 m A$
Forward Voltage Per Segment	VF		2.1	2.6	V	$I_F = 20 m A$
Reverse Current Per Segment	Ir			100	μΑ	$V_R = 5V$
Luminous Intensity Matching Ratio	Iv-m			2:1		$I_F = 1 m A$

Note: 1.Luminous Intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.2. Reverse voltage is only for IR test. It can not continue to operate at this situation.

PART NO.: LSHD-5503



### **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

LITEON:

LSHD-5503