FEATURES

* 0.3 inch (7.62 mm) DIGIT HEIGHT * EXCELLENT SEGMENT UNIFORMITY * LOW POWER REQUIREMENT * HIGH BRIGHTNESS AND HIGH CONTRAST * WIDE VIEWING ANGLE * SOLID STATE RELIABILITY * BINNED FOR LUMINOUS INTENSITY

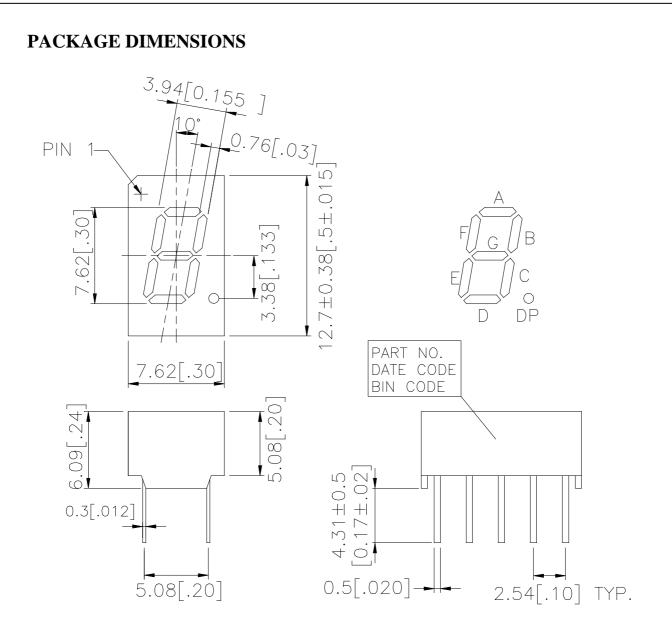
DESCRIPTION

The LSHD-7503 is a 0.3 inch (7.62 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

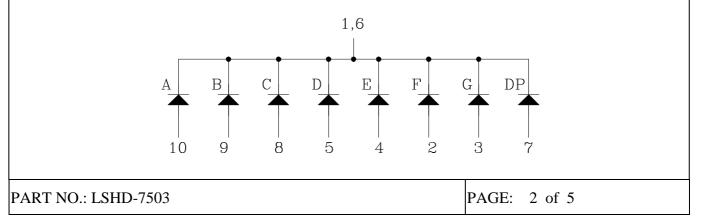
PART NO.	DESCRIPTION
AlInGaP RED	Common Cathode
LSHD-7503	Rt. Hande Decimal

PART NO.: LSHD-7503



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

PART NO.: LSHD-7503

ABSOLUTE MAXIMUM RATING AT Ta = 25°C

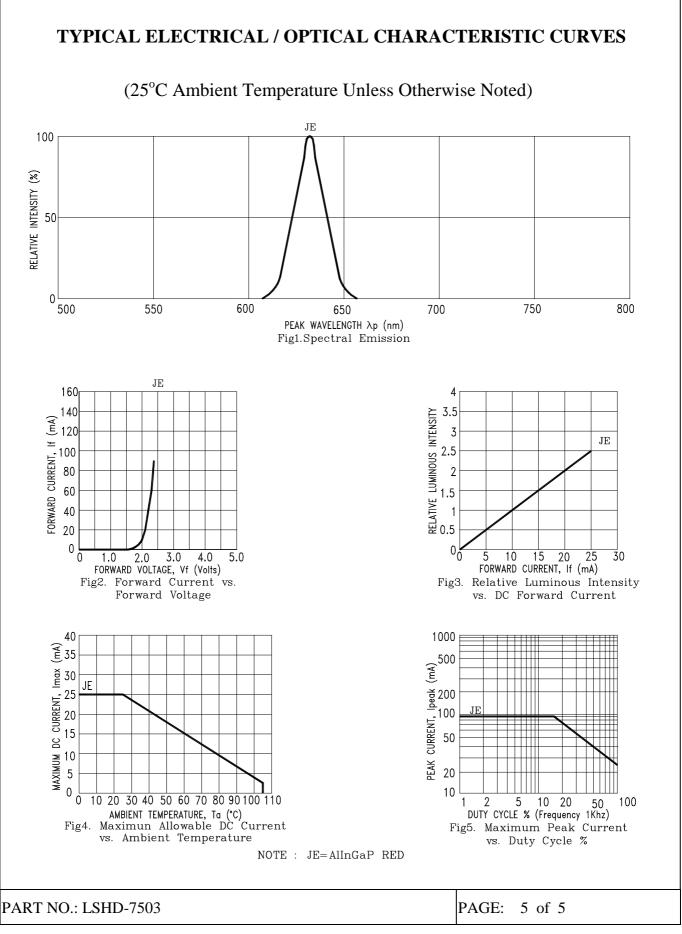
PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	70	mW			
Peak Forward Current Per Segment (Frequency 1Khz, 15% duty cycle)	90	mA			
Continuous Forward Current Per Segment	25	mA			
Forward Current Derating from 25 ^o C	0.28	mA/ ⁰ C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35° C to $+105^{\circ}$ C				
Storage Temperature Range	-35^{0} C to $+105^{0}$ C				
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 ^o C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25°C

PARAMETER	SYMBOL	MIN	ТҮР	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	Iv	320	923		μcd	$I_F = 1 m A$
		5400	12000			$I_F = 10 mA$
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: 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.: LSHD-7503



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