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BNS-OD-FC001/A4

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#### **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-5723AJS is a 0.56 inch (14.22 mm) height digit display. The device utilizes AlInGaP yellow LED chips which are made from AlInGaP on a non-transparent GaAs substrate, and have gray face and white segment color.

This low current seven-segment display is designed to perform under low power consumption. It is tested and selected for it's excellent low current characteristics. It can be driven in low current condition and the segments are matched. This driving current as low as 1mA per segment is applicable.

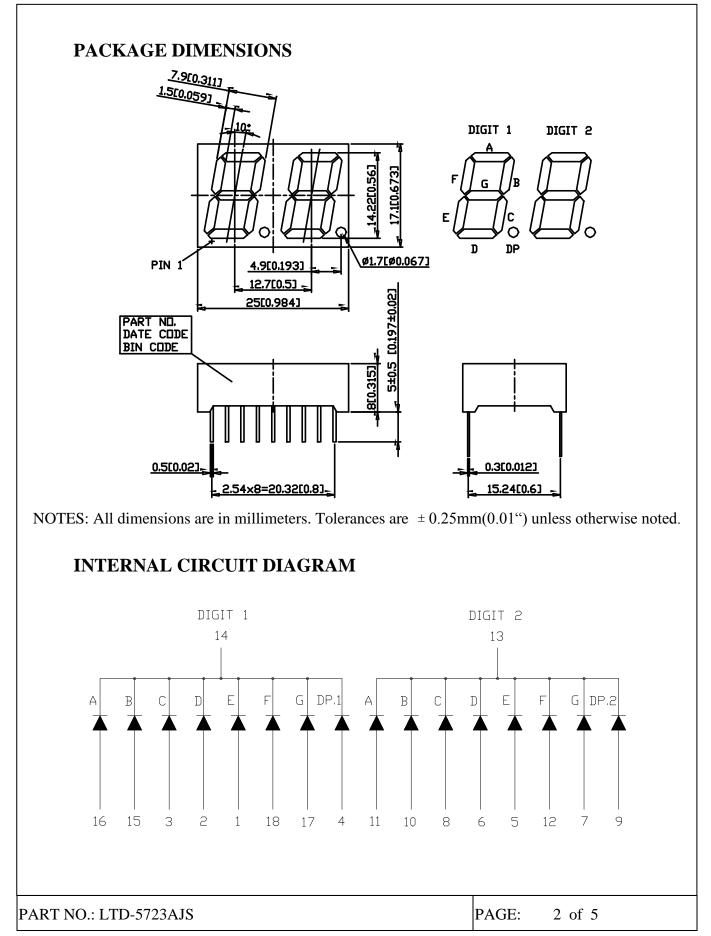
#### DEVICE

PART NO	DESCRIPTION			
AlInGaP YELLOW	Common Cathode			
LTD-5723AJS	Rt. Hand Decimal			

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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 D.P. (DIGIT 1)				
5	ANODE E (DIGIT 2)				
6	ANODE D (DIGIT 2)				
7	ANODE G (DIGIT 2)				
8	ANODE C (DIGIT 2)				
9	ANODE D.P. (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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#### ABSOLUTE MAXIMUM RATING AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	40	mW			
Peak Forward Current Per Segment	60	mA			
( 1/10 Duty Cycle, 0.1ms Pulse Width )					
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 Plane for 3 Seconds at $260^{\circ}$ C					

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	700		μ cd	I <sub>F</sub> =1mA
Peak Emission Wavelength	λр		588		nm	IF=20mA
Spectral Line Half-Width	Δλ		15		nm	IF=20mA
Dominant Wavelength	λd		587		nm	I <sub>F</sub> =20mA
Forward Voltage. Per Segment	V <sub>F</sub>		2.05	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		I <sub>F</sub> =1mA

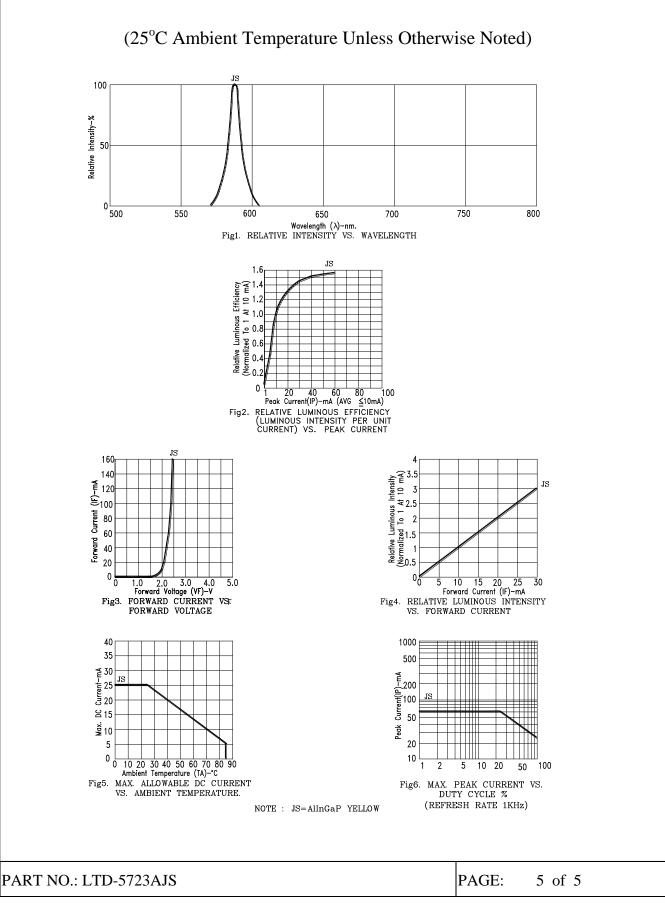
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.



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#### **TYPIGSAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**



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