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BNS-OD-FC001/A4

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LITEON LITE-ON ELECTRONICS, INC.

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FEATURES

* 0.3 inch (7.62 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-323JR is a 0.3 inch (7.62 mm) digit height display. This device utilizes AlInGaP Super Red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a black face and white segments.

DEVICE

PART NO.	DESCRIPTION			
AlInGaP Super Red				
LTD-323JR	Duplex Common Anode			

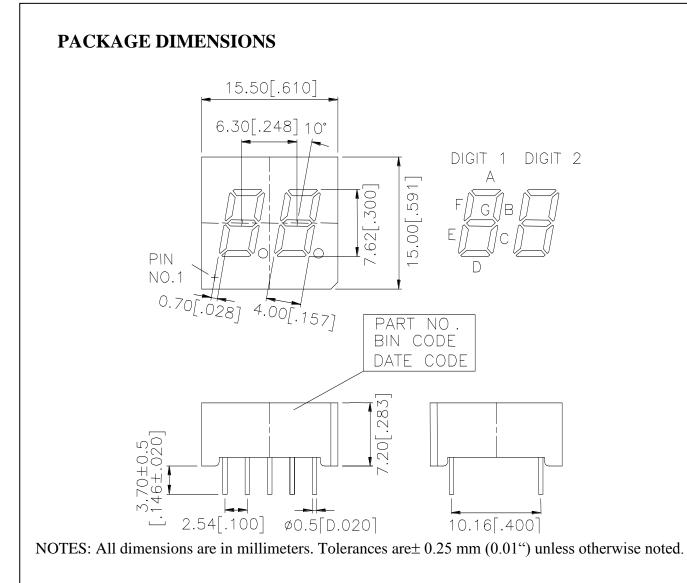
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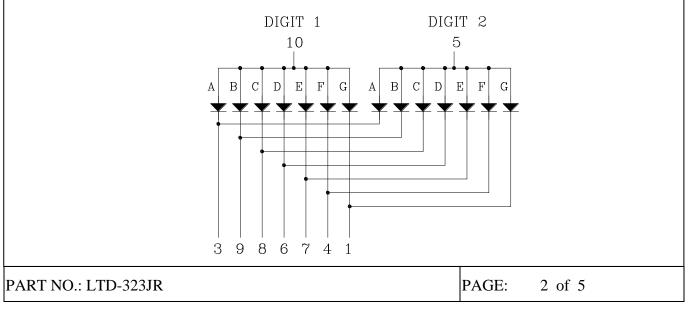
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INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No	CONNECTION				
1	CATHODE G				
2	NO PIN				
3	CATHODE A				
4	CATHODE F				
5	COMMON ANODE (DIGIT 2)				
6	CATHODE D				
7	CATHODE E				
8	CATHODE C				
9	CATHODE B				
10	COMMON ANODE (DIGIT 1)				

PART NO.: LTD-323JR

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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°C Per Segment	0.33	mA/°C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35° C to $+85^{\circ}$ C			
Storage Temperature Range	-35° C to $+85^{\circ}$ C			
Solder Temperature: max 260° C for max 3sec at 1.6mm below seating plane.				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

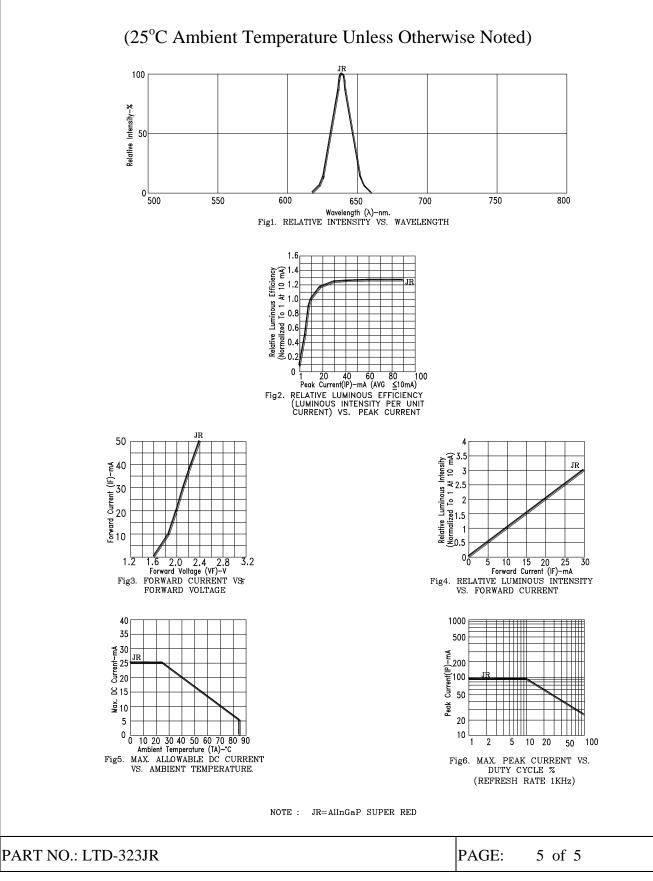
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	600		μcd	IF=1mA
Peak Emission Wavelength	λp		639		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		631		nm	IF=20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



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