



Spec No.: DS30-2000-151Effective Date: 06/09/2010

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-on Only

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 LTS-5003AJR is a 0.56inch (14.22mm) height digit display. The device utilizes AlInGaP super red LED chips which are made from AlInGaP on a non-transparent GaAs substrate, and have light gray face and white segments.

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.

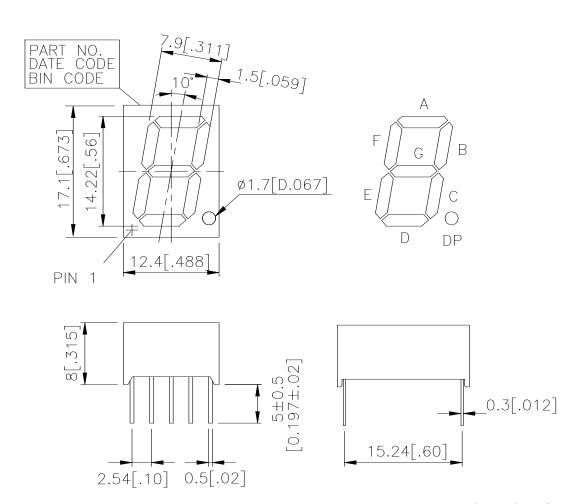
DEVICE

PART NO.	DESCRIPTION			
AllnGaP SUPER RED	Common Cathode			
LTS-5003AJR	Rt. Hand Decimal			

PART NO.: LTS-5003AJR PAGE: 1 of 5

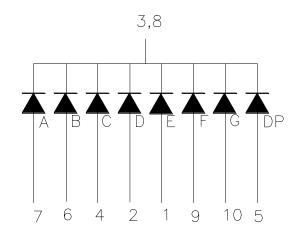
Property of Lite-on Only

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerance is \pm 0.25-mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PART NO.: LTS-5003AJR PAGE: 2 of 5

Property of Lite-on Only

PIN CONNECTION

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

PART NO.: LTS-5003AJR PAGE: 3 of 5

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 ^o C Per Segment	0.33	mA/ ⁰ 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 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT T a=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	700		μcd	I _F =1mA
Peak Emission Wavelength	λр		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λd		631		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	I _F =1mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =1mA

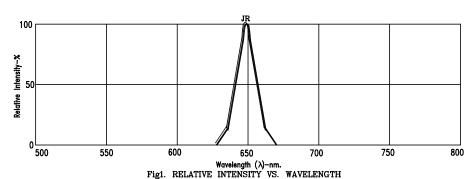
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

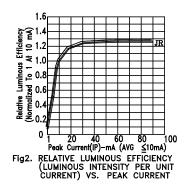
PART NO.: LTS-5003AJR PAGE: 4 of 5

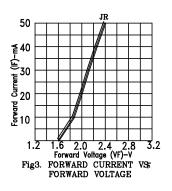
Property of Lite-on Only

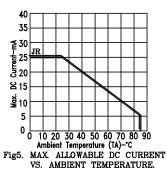
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

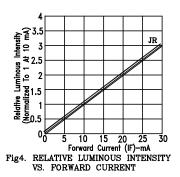
(25°C Ambient Temperature Unless Otherwise Noted)











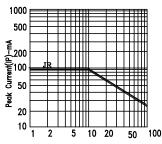


Fig6. MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE : JR=AlingaP SUPER RED (REFRESH RATE 1KHz)

PART NO.: LTS-5003AJR PAGE: 5 of 5

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Displays & Accessories category:

Click to view products by Lite-On manufacturer:

Other Similar products are found below:

LTC-4624JD LTC-4627WC LTC-571P LTM-8522G LTP-4323P LTP-747G LTS-3361JG-06 1668 HT-F196NB-5323 IPD2131-27 SA0312EWA LDQ-N514RI LDS-A3506RD LDS-A3926RI SC03-12HDB SI-B9T151550WW SI-B9V171550WW SLC-3PF-WL SLDN-32M-G
1624 LTC-2621JD LTC-2623WC LTC-4627JD LTD-322G LTD-482PC LTP-1057AHR LTP-1457AKR LTP-3784G-01 LTS-313AP LTS4812SKR-P LTS-547AE LTS-6780P 446010401-3 HV-7W30-6829 DA43-11GWA LDD-A516RI-17 LDD-E305RI LDQ-N3402RI LDQN3606RI LDT-M2804RI 86004CB830 LTP-3862JD LTP-2088AKD LTD-6740P LTS-6880Y LDS-SMC3002RISUGTR LTC-2623E
CC25-12YWA LDM-6432-P3-UR-1 SR420312N/32