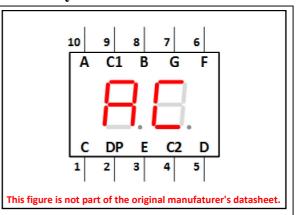


Property of Lite-on Only

FEATURES

- *0.4-INCH (10.0-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-4708JR is a 0.4-inch (10.0-mm) digit height dual digit seven-segment display. This device utilizes AlInGaP Super Red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

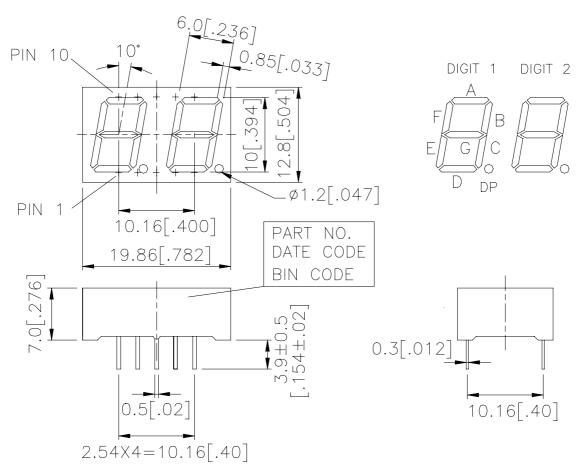
DEVICE

PART NO.	DESCRIPTION			
AlInGaP Super Red	Duplex Common Cathode			
LTD-4708JR	Rt. Hand Decimal			

PART NO.: LTD-4708JR PAGE: 1 of 5

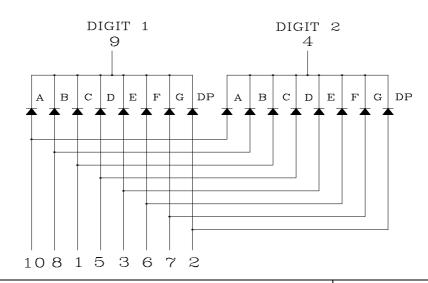
Property of Lite-on Only

PACKAGE DIMENSIONS



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	ANODE C					
2	ANODE D.P.					
3	ANODE E					
4	COMMON CATHODE (DIGIT 2)					
5	ANODE D					
6	ANODE F					
7	ANODE G					
8	ANODE B					
9	COMMON CATHODE (DIGIT 1)					
10	ANODE A					

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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°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 Ta=25°C

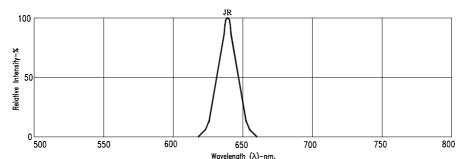
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	650		μcd	I _F =1mA
Peak Emission Wavelength	λр		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λd		631		nm	I _F =20mA
Forward Voltage Per Segment	V_{F}		2.0	2.6	V	I _F =1mA
Reverse Current Per Segment	IR			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =1mA

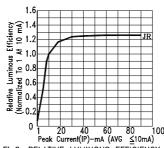
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

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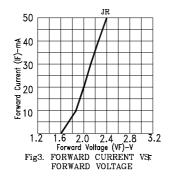
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

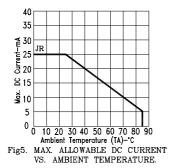
(25°C Ambient Temperature Unless Otherwise Noted)





~ 1 20 40 60 80 100
Peak Current(IP)-mA (AVG £10mA)
Fig2. RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT





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Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT

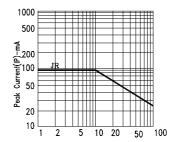


Fig6. MAX PEAK CURRENT VS.
DUTY CYCLE %
(REFRESH RATE 1KHz)

NOTE: JR=AlInGaP SUPER RED

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