



Spec No.: DS30-2001-317 Effective Date: 10/19/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- *0.4 inch (10 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-4608JF is a 0.4 inch (10 mm) digit height dual digit seven-segment display. This device utilizes AlInGaP yellow orange LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

DEVICE

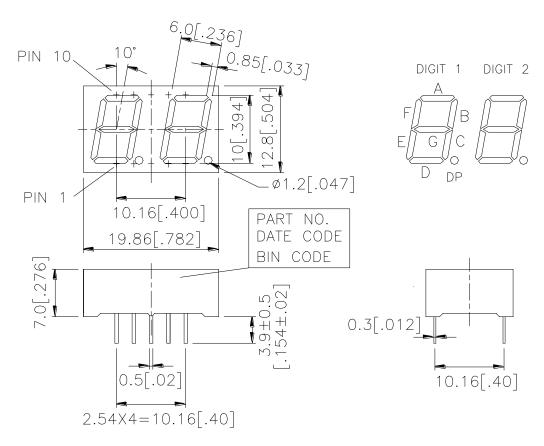
PART NO.	DESCRIPTION			
AlInGaP Yellow Orange	Duplex Common Anode			
LTD-4608JF	Rt. Hand Decimal			

PAGE: 1 of 5 PART NO.:LTD-4608JF

LITE-ON ELECTRONICS, INC.

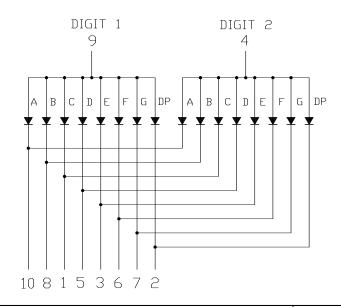
Property of Lite-On Only

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PART NO.:LTD-4608JF PAGE: 2 of 5

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

PIN CONNECTION

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

PAGE: PART NO.:LTD-4608JF 3 of 5



LITEON LITE-ON ELECTRONICS, INC.

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)	60	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°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

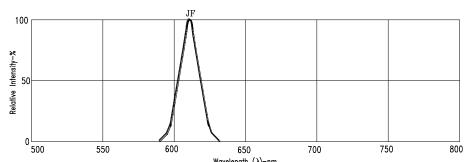
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	650		μcd	I _F =1mA
Peak Emission Wavelength	λр		611		nm	I _F =20mA
Spectral Line Half-Width	Δλ		17		nm	I _F =20mA
Dominant Wavelength	λd		605		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.05	2.6	V	I _F =20mA
Reverse 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'Eclairage) eye-response curve.

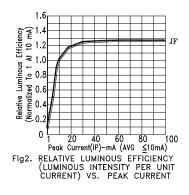
PAGE: 4 of 5 PART NO.:LTD-4608JF

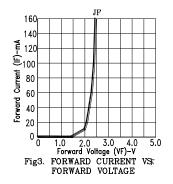
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

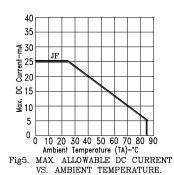
(25°C Ambient Temperature Unless Otherwise Noted)



Wavelength (λ)-nm.
Fig1. RELATIVE INTENSITY VS. WAVELENGTH







W 3.5

JF

JF

JF

STORY

STOR

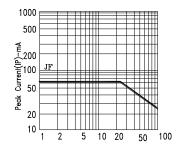


Fig6. MAX. PEAK CURRENT VS.
DUTY CYCLE %
(REFRESH RATE 1KHz)

NOTE : JF=AlInGaP YELLOW ORANGE

PART NO.:LTD-4608JF PAGE: 5 of 5