

FEATURES

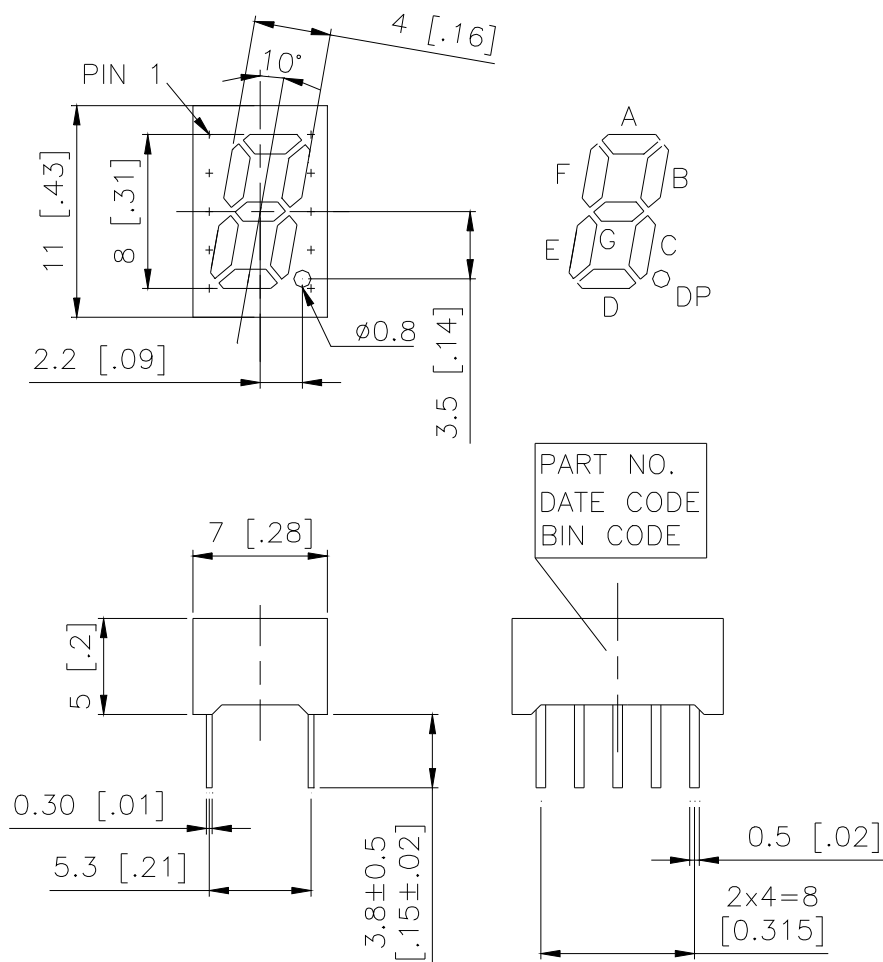
- * 0.315 inch (8.0 mm) DIGIT HEIGHT
- * CONTINUOUS UNIFORM SEGMENTS
- * LOW POWER REQUIREMENT
- * EXCELLENT CHARACTERS APPEARANCE
- * CATEGORIZED FOR LUMINOUS INTENSITY
- * **LEAD FREE PACKAGE**

DESCRIPTION

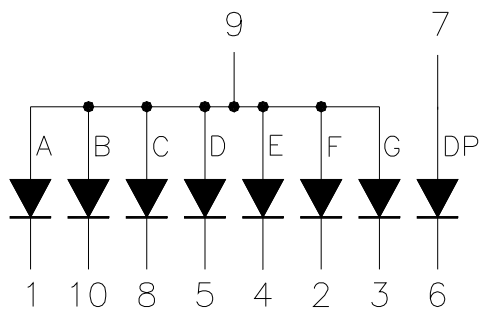
The LTS-3867JD-H3J is a 0.315 inch (8.0 mm) digit height single digit seven-segment display. This device uses AlInGaP Hyer Red LED chips (AlInGaP epi on GaAs substrate). The display has a black face and **white** segments.

DEVICE

PART NO.	DESCRIPTION
AlInGaP HYPER RED	Common Anode
LTS-3867JD-H3J	Rt. Hand Decimal

PACKAGE DIMENSIONS


- NOTES: 1. All dimensions are in millimeters. Tolerances are ± 0.25 -mm (0.01") unless otherwise noted.
 2. Pin tip's shift tolerance is ± 0.4 mm.

INTERNAL CIRCUIT DIAGRAM


PIN CONNECTION

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

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	90	mA
Continuous Forward Current Per Segment	25	mA
Forward Current Derating from 25 ⁰ C	0.28	mA/ ⁰ C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 ⁰ C to +105 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +105 ⁰ C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 ⁰ C, or temperature of unit (during assembly) not over max. temperature rating above		

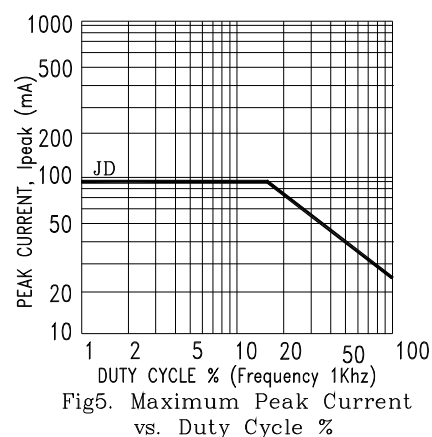
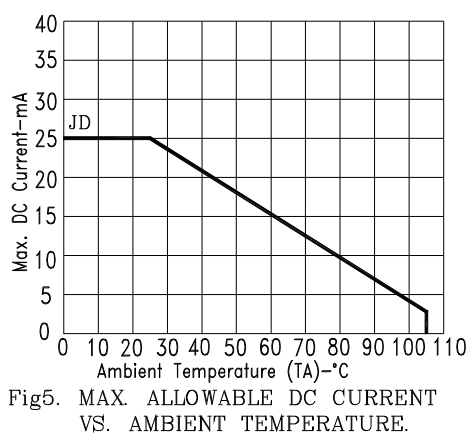
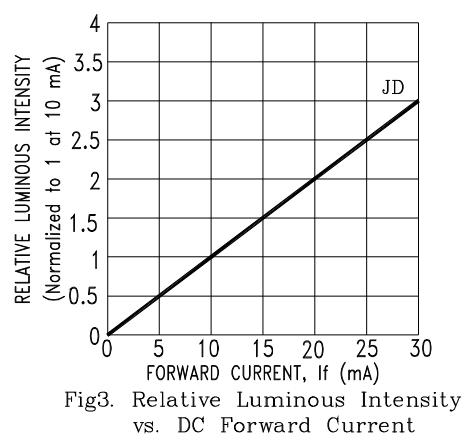
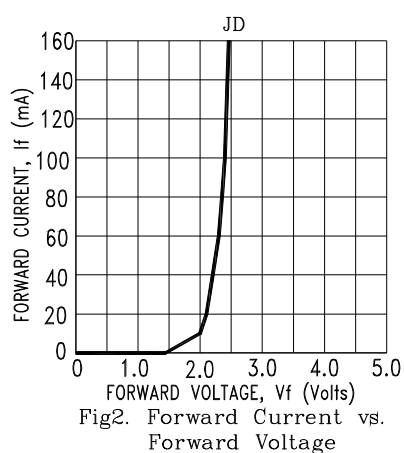
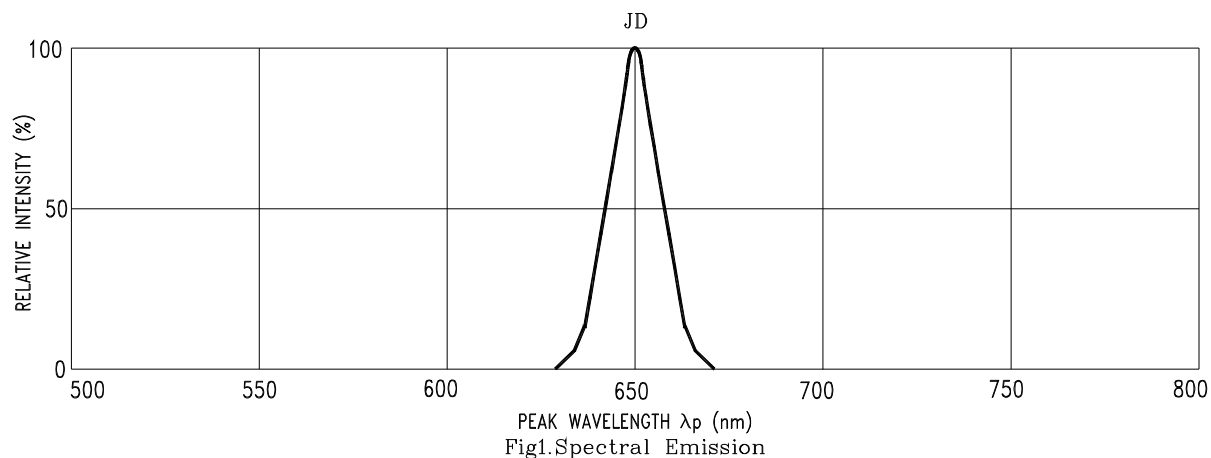
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25⁰C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I _v	200	692		μcd	I _F =1mA
		3400	9000			I _F =10mA
Peak Emission Wavelength	λ _p		650		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λ _d		639		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio (Similar Light Area)	I _v -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.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : JD=AlInGaP HYPER RED