

FEATURES

- * 0.36 inch (9.1 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.

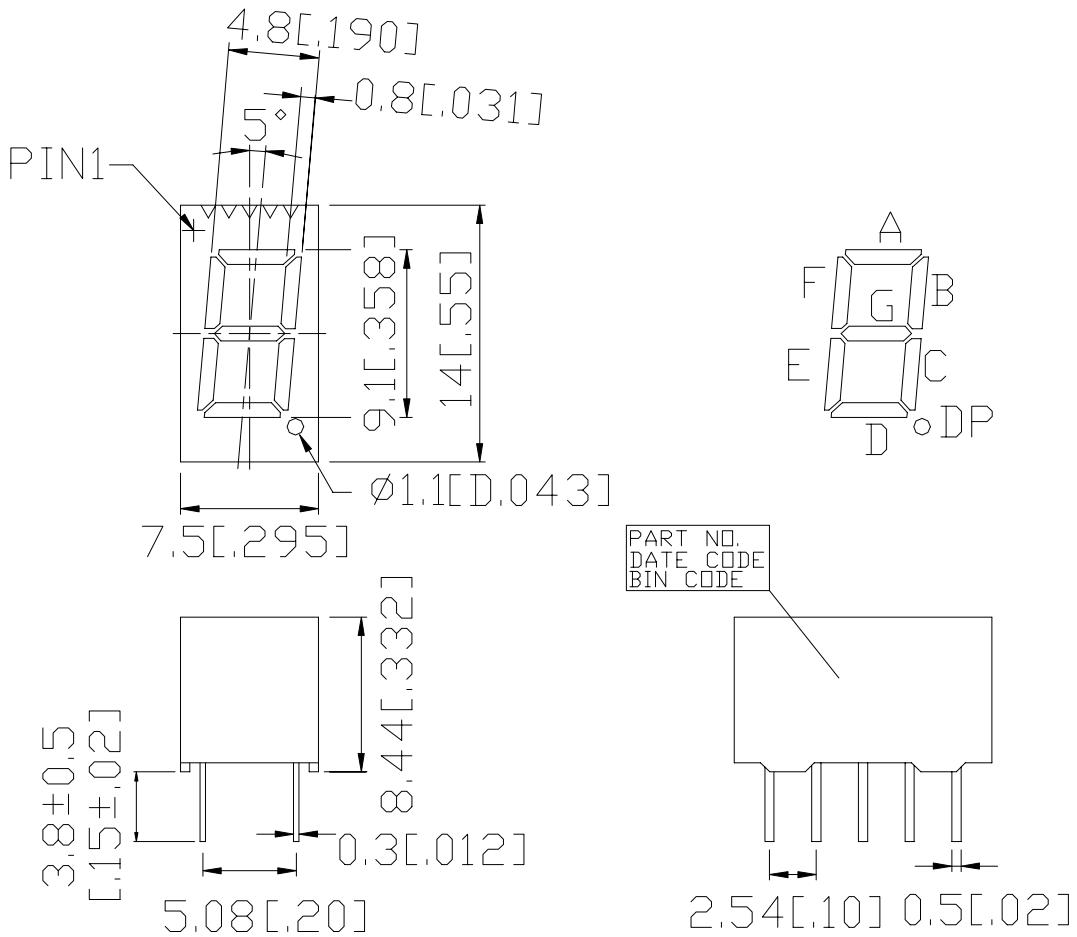
DESCRIPTION

The LTS-360JD is a 0.36 inch (9.1 mm) digit height single digit seven-segment display. This device utilizes AlInGaP hyper red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

DEVICE

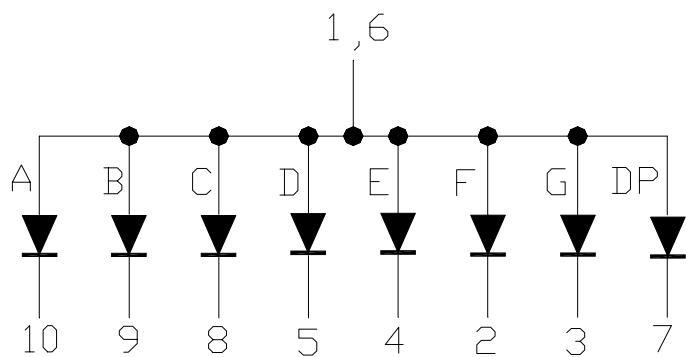
PART NO.	DESCRIPTION
AlInGaP HYPER RED	Common Anode
LTS-360JD	Rt. Hand Decimal

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

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

ABSOLUTE MAXIMUM RATING AT $T_A=25^\circ\text{C}$

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/ $^\circ\text{C}$
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to $+85^\circ\text{C}$	
Storage Temperature Range	-35°C to $+85^\circ\text{C}$	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds	260°C	

ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_A=25^\circ\text{C}$

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_v	200	650		μcd	$I_F=1\text{mA}$
Peak Emission Wavelength	λ_p		650		nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$		20		nm	$I_F=20\text{mA}$
Dominant Wavelength	λ_d		639		nm	$I_F=20\text{mA}$
Forward Voltage Per Segment	V_F		2.1	2.6	V	$I_F=20\text{mA}$
Reverse Current Per Segment	I_R			100	μA	$V_R=5\text{V}$
Luminous Intensity Matching Ratio	$I_v\text{-m}$			2:1		$I_F=1\text{mA}$

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

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

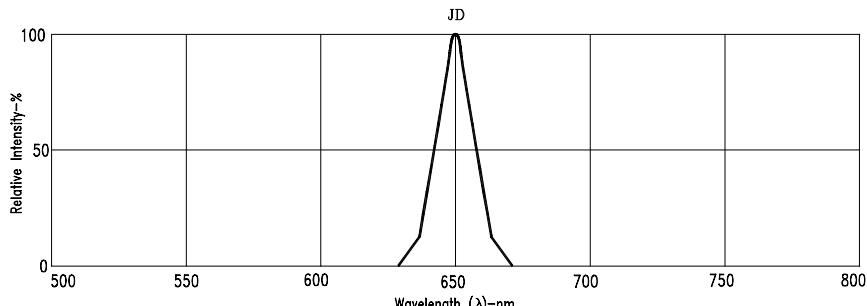


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

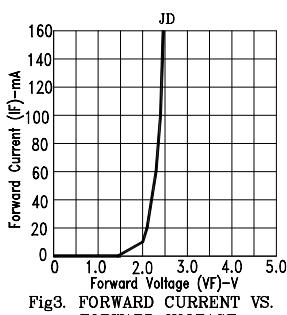
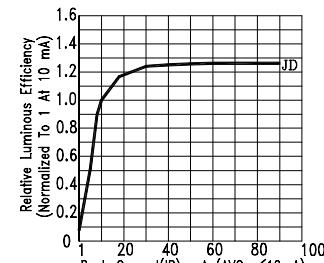


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

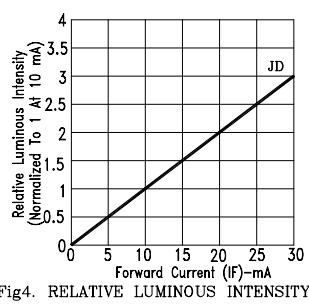


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

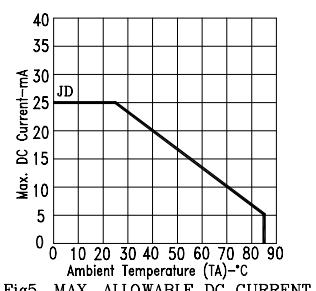
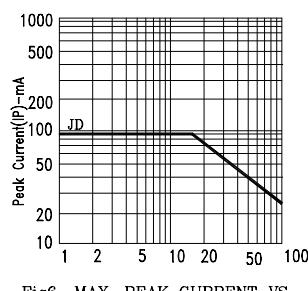


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



NOTE : JD=AlInGaP HYPER RED