FEATURES

＊0.8-INCH (20.32-mm) DIGIT HEIGHT.
＊CONTINUOUS UNIFORM SEGMENTS
＊LOW POWER CONSUMPTION.
＊LOW POWER REQUIREMENT.
＊EXCELLENT CHARACTERS APPEARANCE.
＊WIDE VIEWING ANGLE.
＊SOLID STATE RELIABILITY.
＊CATEGORIZED FOR LUMINOUS INTENSITY.
＊I.C. COMPATIABLE.
＊EASY MOUNTING ON P.C. BOARD OR SOCKET.

DESCRIPTION

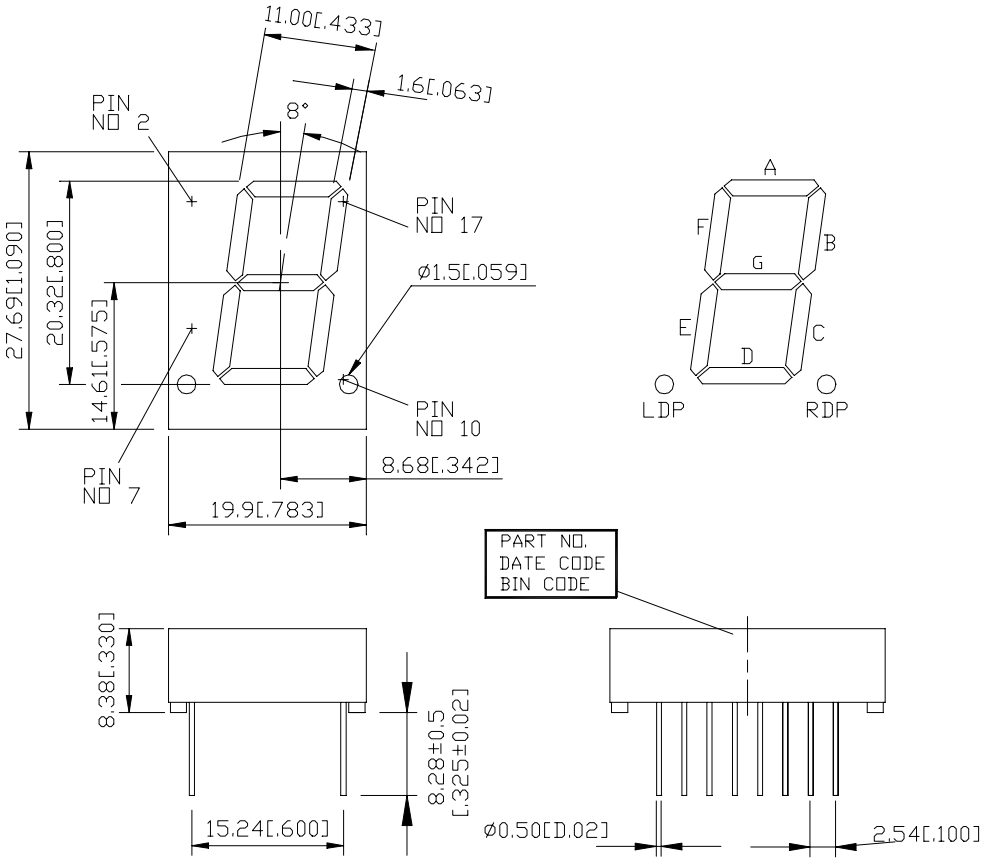
The LTS-3401LWC is a 0.8-inch (20.32-mm) digit height single digit low current seven-segment display. This device utilizes low current red LED chips, which are made from AlGaAs on a non-transparent GaAs substrate, and has a gray face and white segments.

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

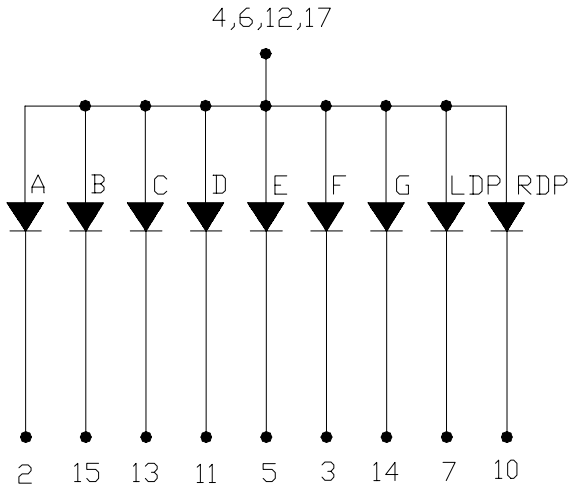
PART NO.	DESCRIPTION
LOW CURRENT RED	Common Anode
LTS-3401LWC	Rt. & Lt. Hand Decimal

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerance is ± 0.25-mm (0.01“) unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	NO PIN
2	CATHODE A
3	CATHODE F
4	COMMON ANODE
5	CATHODE E
6	COMMON ANODE
7	CATHODE L.D.P
8	NO PIN
9	NO PIN
10	CATHODE R.D.P
11	CATHODE D
12	COMMON ANODE
13	CATHODE C
14	CATHODE G
15	CATHODE B
16	NO PIN
17	COMMON ANODE
18	NO PIN

ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	125	mA
Continuous Forward Current Per Segment	30	mA
Derating Linear From 25°C Per Segment	0.4	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 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	I_V	320	700		μcd	I_F=1mA
			3750		μcd	I_F=5mA
Peak Emission Wavelength	λp		660		nm	I_F=20mA
Spectral Line Half-Width	Δλ		35		nm	I_F=20mA
Dominant Wavelength	λd		638		nm	I_F=20mA
Forward Voltage Per Segment	V_F		1.6	2.4	V	I_F=1mA
			1.7			I_F=5mA
			1.8			I_F=20mA
Reverse Current Per Segment	I_R			100	μA	V_R=5V
Luminous Intensity Matching Ratio	I_V-m			2:1		I_F=10mA

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)

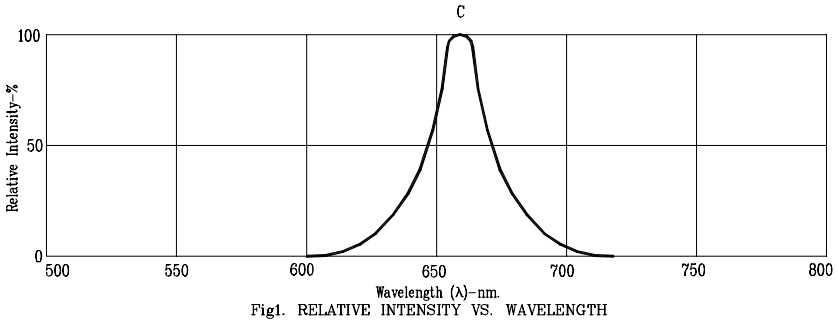


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

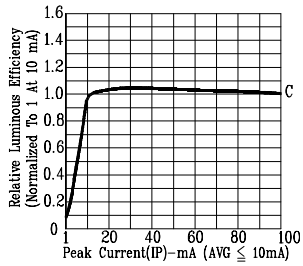


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)

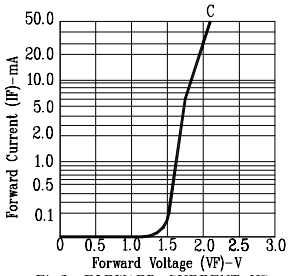


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

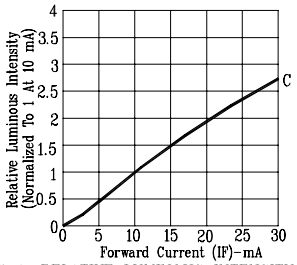


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

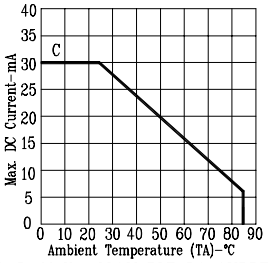


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

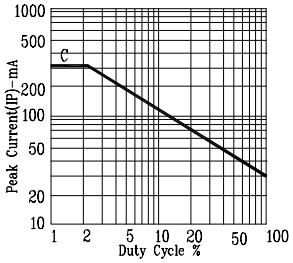


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: C=AlGaAs RED