Property of Lite-On Only

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-3403LJR is a 0.8-inch (20.32-mm) digit height single 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.

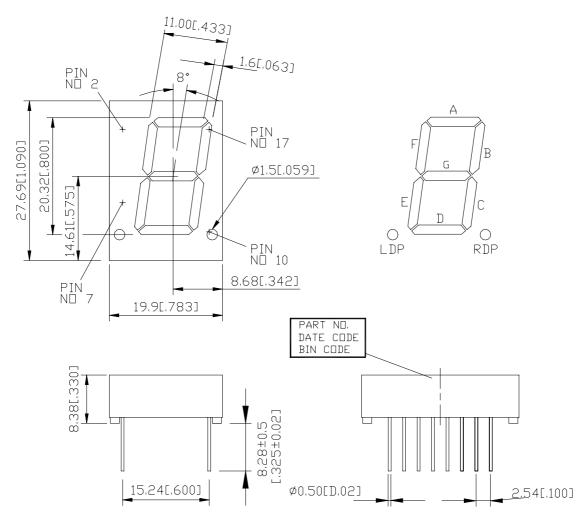
DEVICE

PART NO.	DESCRIPTION		
AlInGaP Super Red	Common Cathode		
LTS-3403LJR	Rt. & Lt. Hand Decimal		

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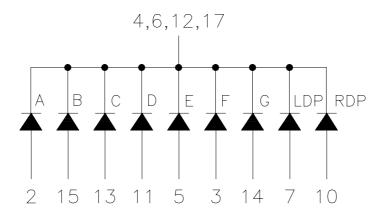
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT T_A =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	0.28	mA/ ⁰ C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35^{0} C to $+85^{0}$ C				
Storage Temperature Range	-35° C to $+85^{\circ}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ^o C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

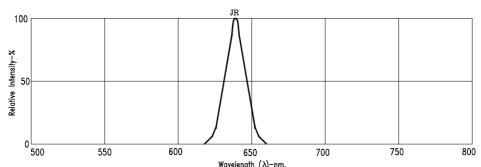
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	700		μcd	I _F =1mA
Peak Emission Wavelength	λр		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λd		631		nm	I _F =20mA
Forward Voltage Per Segment	V_{F}		2.0	2.6	V	I _F =10mA
Reverse 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.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



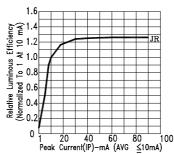
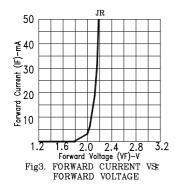
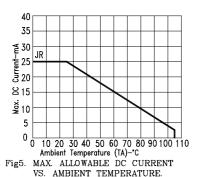


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT





JR 0 5 10 15 20 25 30 Forward Current (IF)-mA Fig4. RELATIVE LUMINOUS INTENSITY

VS. FORWARD CURRENT

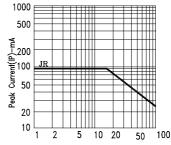


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: JR=AlInGaP SUPER RED

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