FEATURES

∗0.315 inch (8 mm) DIGIT HEIGHT
∗EXCELLENT SEGMENT UNIFORMITY
∗LOW POWER REQUIREMENT
∗HIGH BRIGHTNESS AND HIGH CONTRAST
∗WIDE VIEWING ANGLE
∗SOLID STATE RELIABILITY
∗BINNED FOR LUMINOUS INTENSITY
∗**LEAD-FREE PACKAGE**

DESCRIPTION

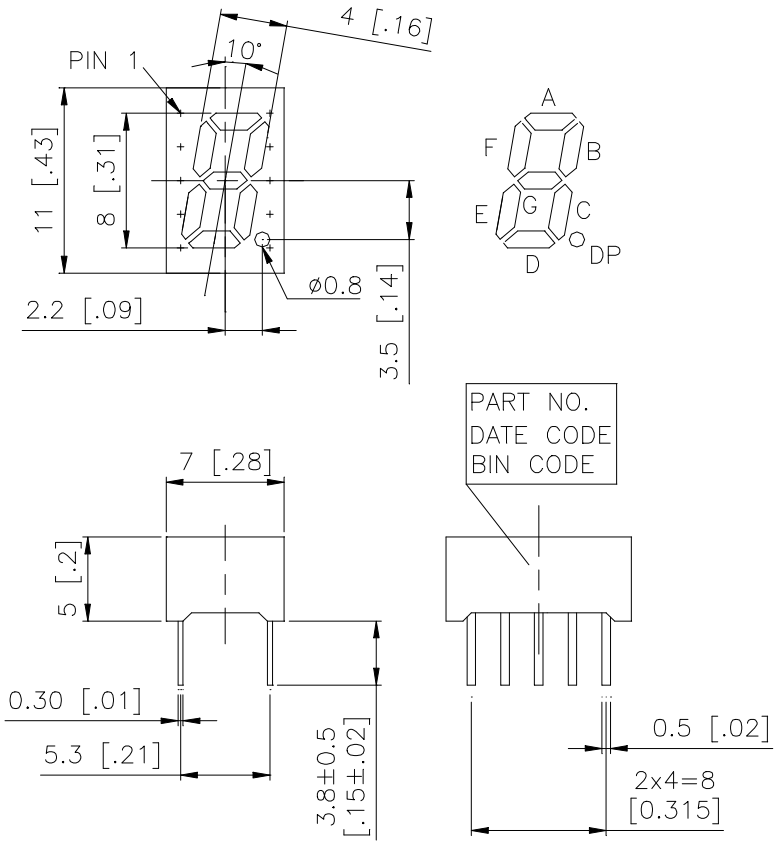
The LTS-3367C-T is a 0.315 inch (8.0 mm) digit height single-digit display. This device uses AlGaAs RED LED chips (AlGaAs epi on GaAs substrate). The display has black face and red segments.

DEVICE

PART NO.	DESCRIPTION
AlGaAs RED	Common Cathode
LTS-3367C-T	Rt. Hand Decimal

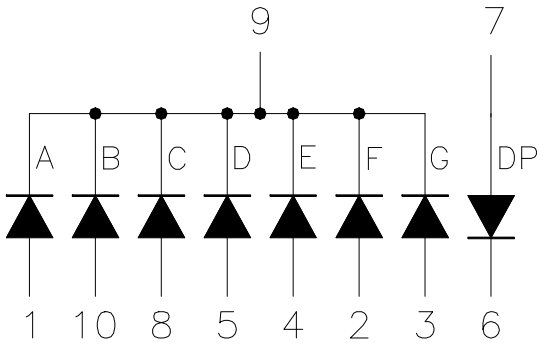
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (Frequency 1Khz, 15% duty cycle)	125*	mA
Continuous Forward Current Per Segment	30	mA
Forward Current Derating from 25^0C	0.4	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		

*See figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25°C

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I_V	200	600 7800		μcd	I_F = 1mA I_F = 10mA
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		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'Eclairage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

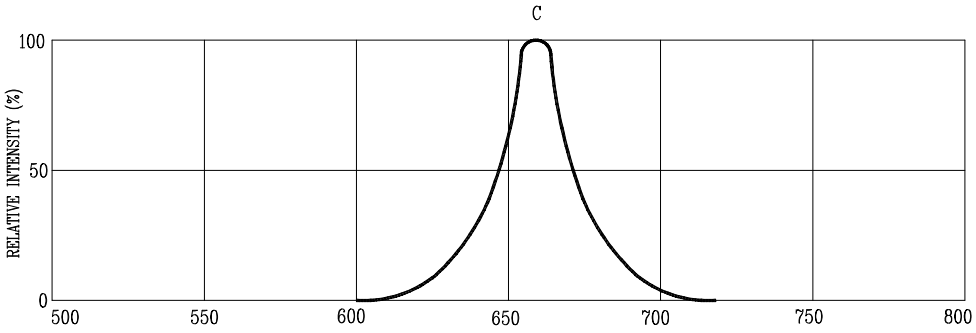


Fig1.Spectral Emission

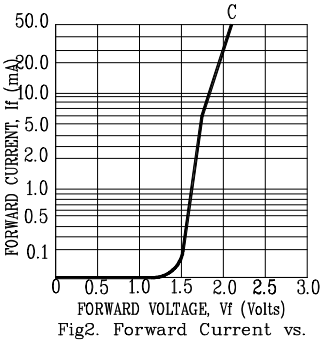


Fig2. Forward Current vs. Forward Voltage

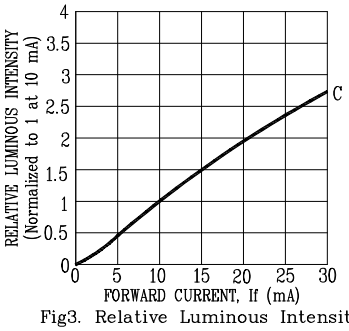


Fig3. Relative Luminous Intensity vs. DC Forward Current

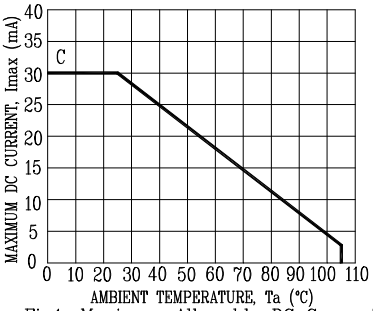


Fig4. Maximun Allowable DC Current vs. Ambient Temperature

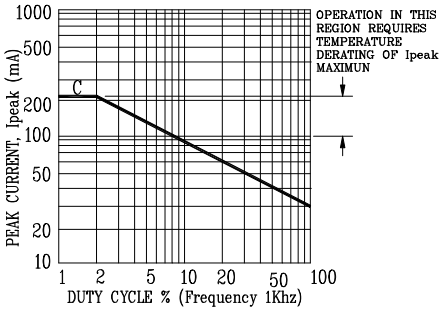


Fig5. Maximum Peak Current vs. Duty Cycle %

NOTE: C=AlGaAs RED

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