

FEATURES

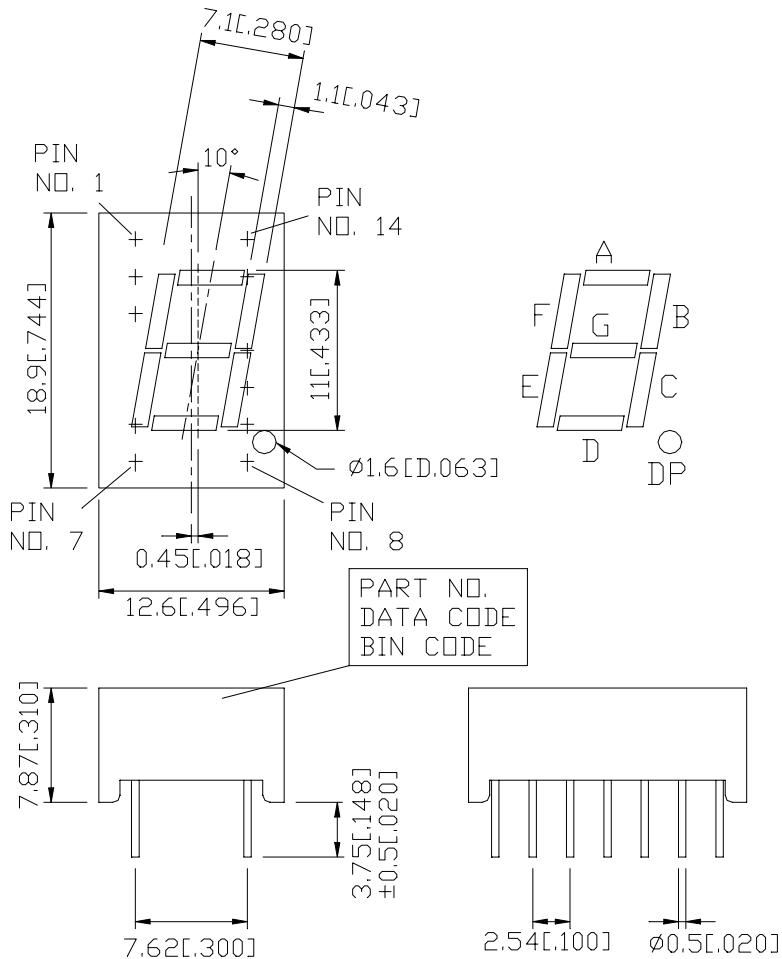
- * 0.43 inch (11 mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENT.
- * EXCELLENT CHARACTERS APPEARANCE.
- * HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- * CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

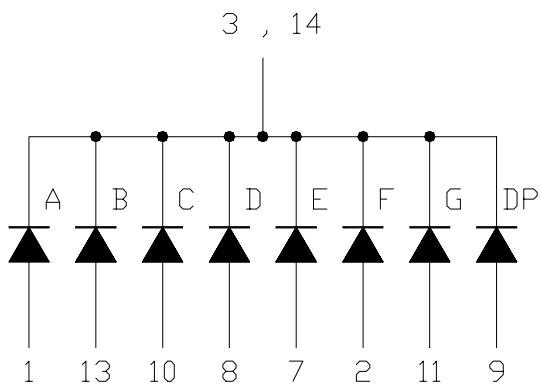
The LTS-7760R is a 0.43 inch (11 mm) digit height single digit seven-segment display. This device utilizes red LED chips, which are made from GaAsP on a transparent GaAs substrate, and has a black face and red segments.

DEVICE

PART NO.	DESCRIPTION
Red	Common Cathode
LTS-7760R	Rt. Hand Decimal

PACKAGE DIMENSIONS

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

INTERNAL CIRCUIT DIAGRAM

PIN CONNECTION

NO	CONNECTION
1	ANODE A
2	ANODE F
3	COMMON CATHODE
4	NO PIN
5	NO PIN
6	NO CONNECTION
7	ANODE E
8	ANODE D
9	ANODE DP
10	ANODE C
11	ANODE G
12	NO PIN
13	ANODE B
14	COMMON CATHODE

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	55	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	150	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.33	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: max 260°C for max 3sec at 1.6mm below seating plane.		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	200	500		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		655		nm	I _F =20mA
Spectral Line Half-Width	Δλ		24		nm	I _F =20mA
Dominant Wavelength	λ _d		651		nm	I _F =20mA
Forward Voltage Per Segment	V _F		1.7	2	V	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)

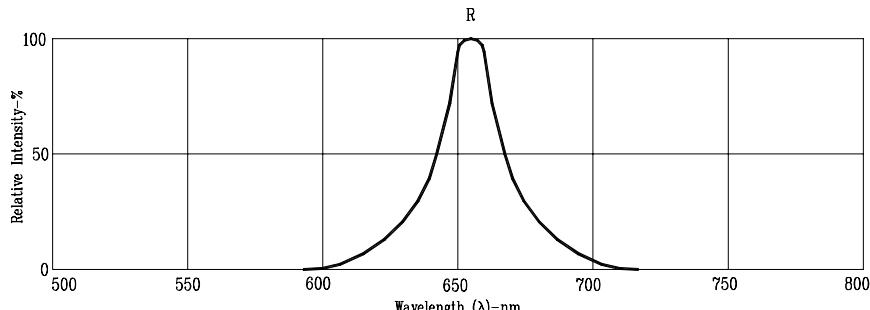
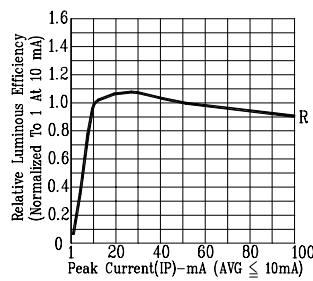
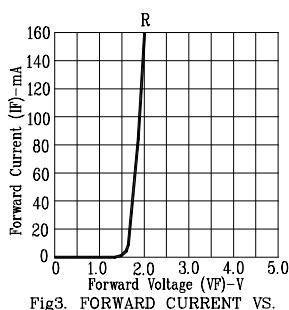
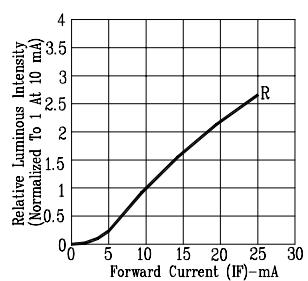
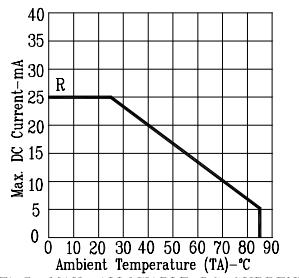
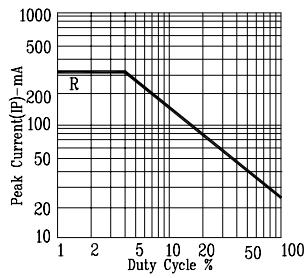


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

Fig2. RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT
(REFRESH RATE 1KHz)Fig3. FORWARD CURRENT VS.
FORWARD VOLTAGEFig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENTFig5. MAX. ALLOWABLE DC CURRENT
VS. AMBIENT TEMPERATURE.Fig6. MAX. PEAK CURRENT VS.
DUTY CYCLE %
(REFRESH RATE 1KHz)

NOTE: R=RED