

FEATURES

- * 0.4 INCH (10.3 mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENT.
- * EXCELLENT CHARACTERS APPEARANCE.
- * HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.

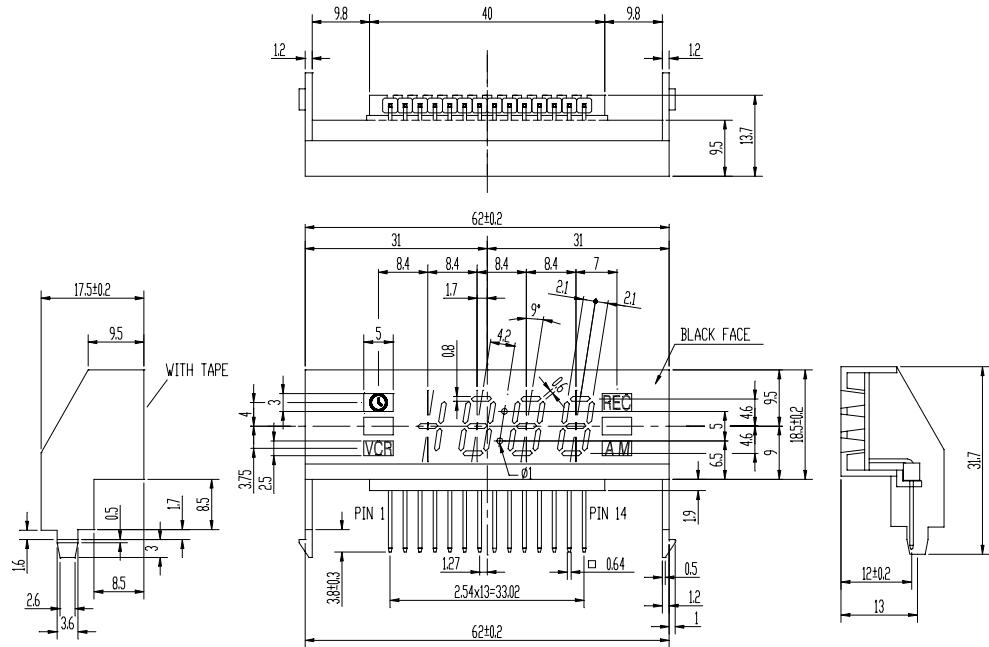
DESCRIPTION

The LTG-9908Y is a 0.4 inch (10.3 mm) digit height quadruple digit seven-segment display with four captions on it. The device utilizes yellow LED chips, which are made from GaAsP on a transparent GaP substrate. This device covered with a black pattern film, and packaged with red epoxy.

DEVICE

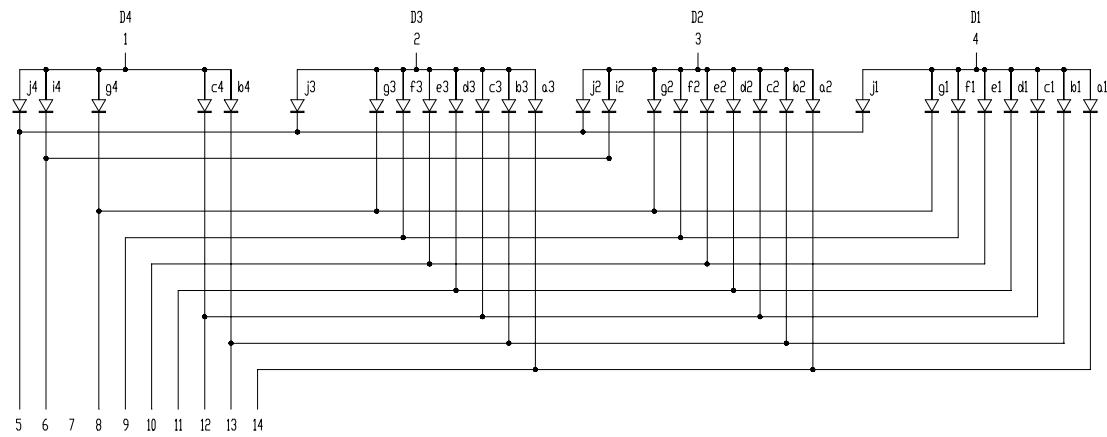
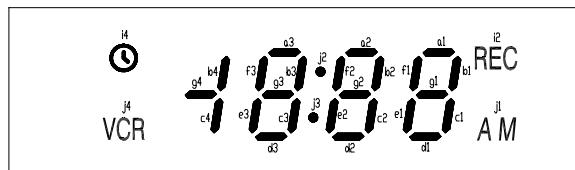
PART NO.	DESCRIPTION
YELLOW	
LTG-9908Y	Multiplex Common Anode

PACKAGE DIMENSIONS



Notes : All dimensions are in millimeters. Tolerance: $\pm 0.25\text{mm}$ unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	COMMON ANODE (DIGIT 4)
2	COMMON ANODE (DIGIT 3)
3	COMMON ANODE (DIGIT 2)
4	COMMON ANODE (DIGIT 1)
5	CATHODE j1, j2, j3, j4
6	CATHODE i2, i4
7	NO CONNECTION
8	CATHODE g1, g2, g3, g4
9	CATHODE f1, f2, f3
10	CATHODE e1, e2, e3
11	CATHODE d1, d2, d3
12	CATHODE c1, c2, c3, c4
13	CATHODE b1, b2, b3, b4
14	CATHODE a1, a2, a3

ABSOLUTE MAXIMUM RATING AT T_a=25°C

PARAMETER	YELLOW	UNIT
Power Dissipation Per Chip	60	mW
Peak Forward Current Per Chip (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Continuous Forward Current Per Chip	25	mA
Derating Linear From 25°C Per Chip	0.22	mA/°C
Reverse Voltage Per Chip	5	V
Operating Temperature Range	-35°C to +105°C	
Storage Temperature Range	-35°C to +105°C	
Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane		

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_a=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I _v	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		585		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λ _d		590		nm	I _F =20mA
Forward Voltage Per Chip	V _F	1.8	2.1	2.6	V	I _F =10mA
Reverse Current Per Chip	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)

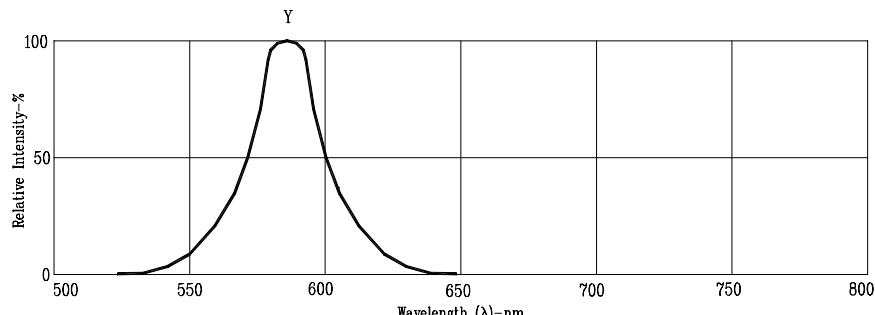


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

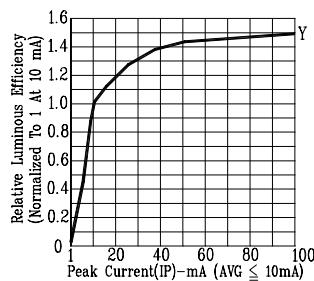


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)

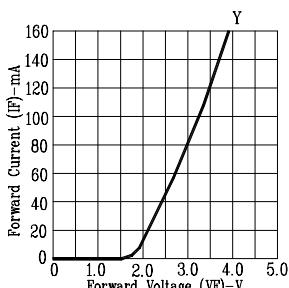


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

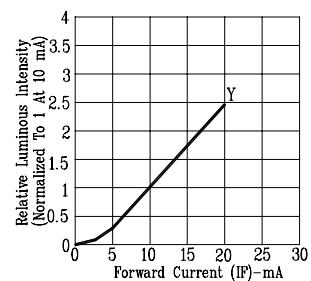


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

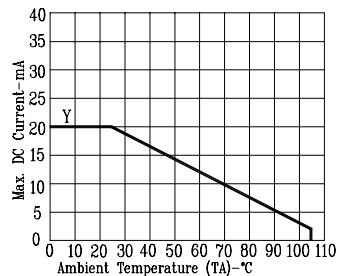


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

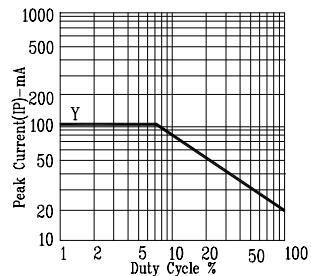


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE : Y=YELLOW