

FEATURES

- * 0.276 inch (7 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**

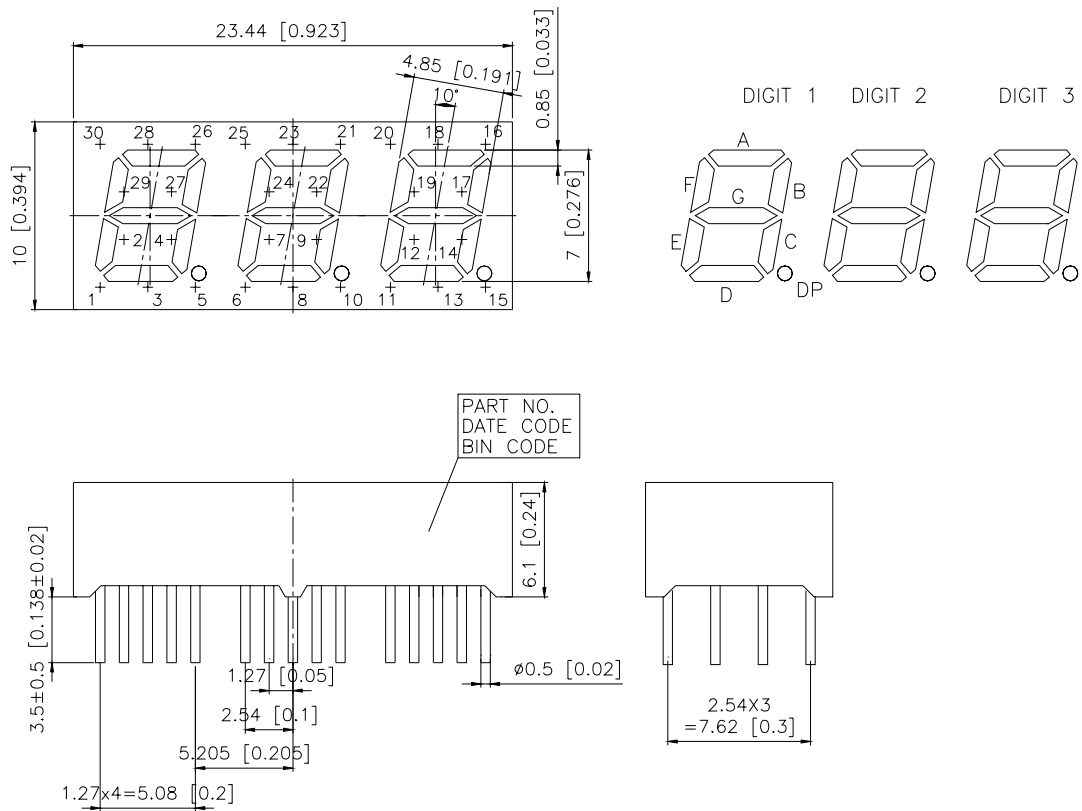
DESCRIPTION

The LTC-2810HG is a 0.276 inch (7 mm) digit height triple digit display. This device uses GREEN LED chips (GaP epi on GaP substrate). The display has gray face and white segments.

DEVICE

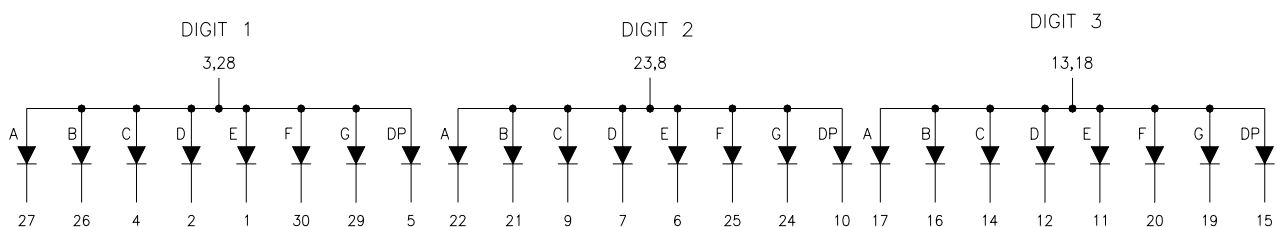
PART NO.	DESCRIPTION
GREEN	Common Anode
LTC-2810HG	Rt. Hand Decimal

PACKAGE DIMENSIONS



NOTES: 1.All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.
2.Pin tip's shift tolerance is ± 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO.	CONNECTION	NO.	CONNECTION
1	Cathode E (DIGIT 1)	16	Cathode B (DIGIT 3)
2	Cathode D (DIGIT 1)	17	Cathode A (DIGIT 3)
3	Common Anode Digit 1	18	Common Anode Digit 3
4	Cathode C (DIGIT 1)	19	Cathode G (DIGIT 3)
5	Cathode DP (DIGIT 1)	20	Cathode F (DIGIT 3)
6	Cathode E (DIGIT 2)	21	Cathode B (DIGIT 2)
7	Cathode D (DIGIT 2)	22	Cathode A (DIGIT 2)
8	Common Anode Digit 2	23	Common Anode Digit 2
9	Cathode C (DIGIT 2)	24	Cathode G (DIGIT 2)
10	Cathode DP(DIGIT 2)	25	Cathode F (DIGIT 2)
11	Cathode E (DIGIT 3)	26	Cathode B (DIGIT 1)
12	Cathode D (DIGIT 3)	27	Cathode A (DIGIT 1)
13	Common Anode Digit 3	28	Common Anode Digit 1
14	Cathode C (DIGIT 3)	29	Cathode G (DIGIT1)
15	Cathode DP (DIGIT 3)	30	Cathode F (DIGIT 1)

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	100*	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 +105°C	
Storage Temperature Range	-35°C to +105°C	
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260 ⁰ C., or temperature of unit (during assembly) not over max. temperature rating above.		

* see figure 5 to establish pulsed condition

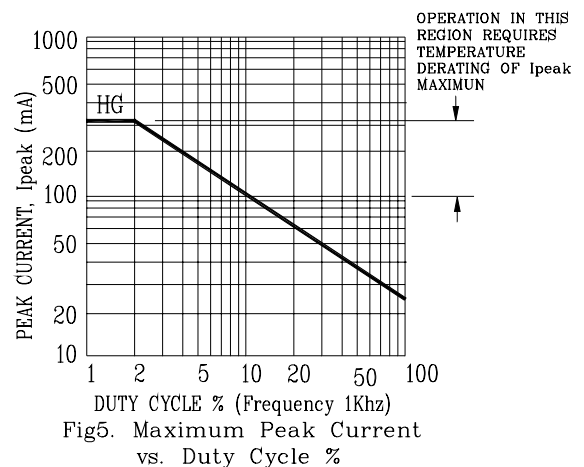
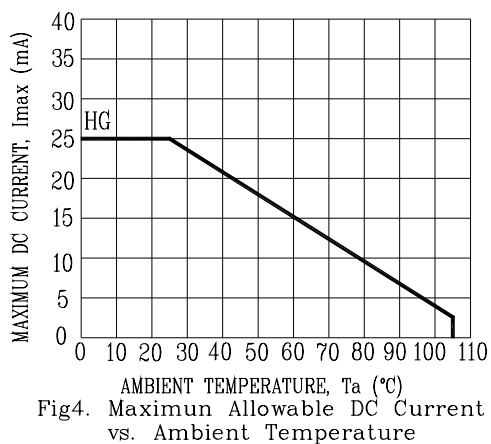
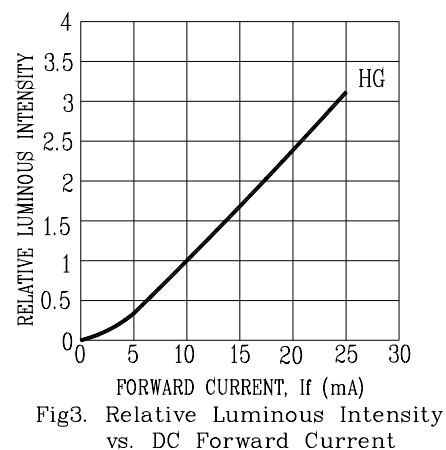
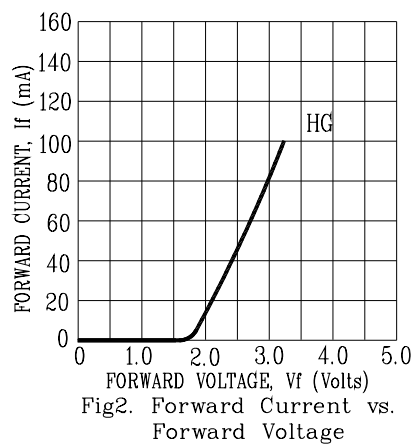
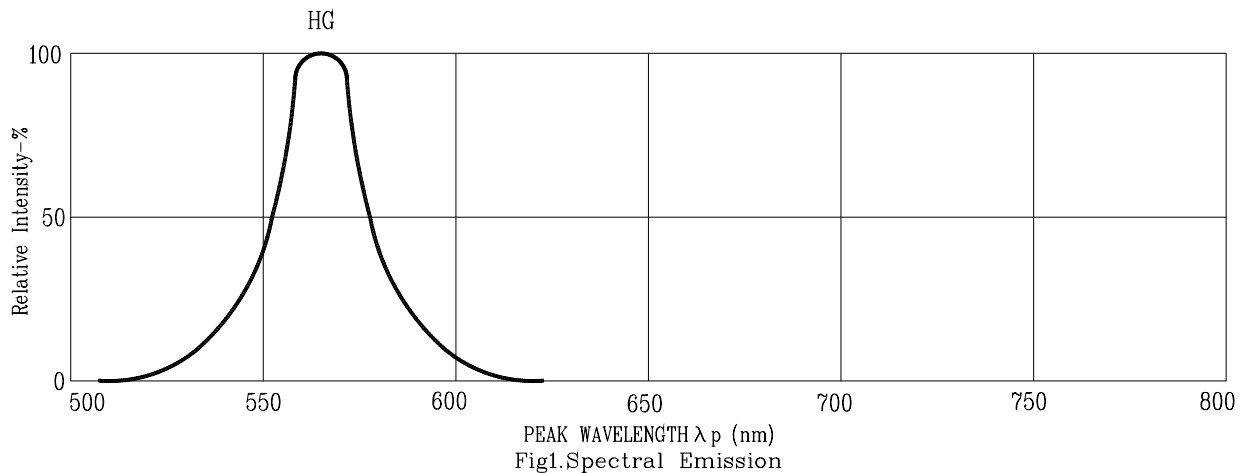
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	800	2600		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λ _d		569		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 =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)



NOTE: HG=GREEN