Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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FEATURE

* 0.56 INCH (14.22mm) DIGIT HEIGHT.
* LOW POWER REQUIREMENT.
* CONTINUOUS UNIFORM SEGMENTS.
* CATEGORIZED FOR LUMINOUS INTENSITY.
* WIDE VIEWING ANGLE.
* HIGH CONTRAST.
* HIGH BRIGHTNESS.
*SOLID STATE RELIABILITY
*EASY MOUNTING ON P.C. BOARD
* I.C. COMPATIBLE
* IR REFLOWABLE

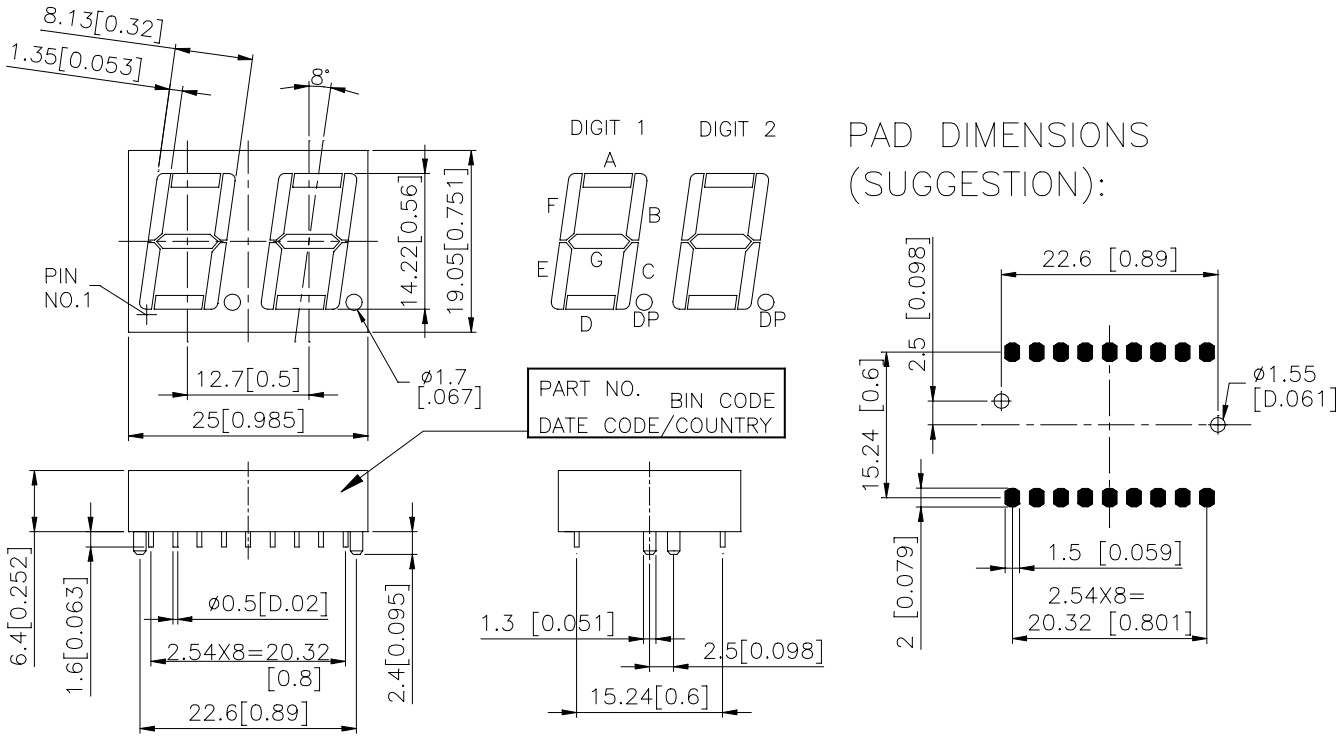
DESCRIPTION

The LTD-6910SH-R1 is a 0.56 inch (14.22mm) height dual digit display. This dispaly utilizes high efficiencey Red LED chips which are made from GaAsP on a transparent GaP substrate, and has light gray face and white segments. This device is IR reflowable.

DEVICE

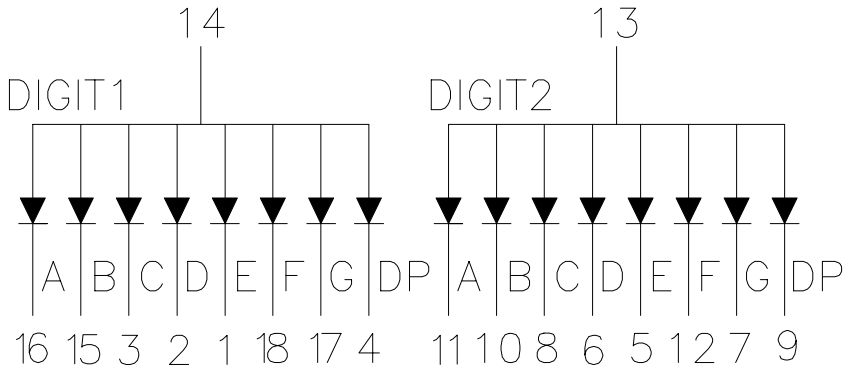
PART NO.	DESCRIPTION
HI-EFF. RED	Common Anode
LTD-6910SH-R1	Rt. Hand Decimal

PACKAGE DIMENSION



NOTES: All dimensions are in millimeters. Tolerance is ± 0.25-mm (0.01“) unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO.	CONNECTION
1	CATHODE E (DIGIT 1)
2	CATHODE D (DIGIT 1)
3	CATHODE C (DIGIT 1)
4	CATHODE D.P. (DIGIT 1)
5	CATHODE E (DIGIT 2)
6	CATHODE D (DIGIT 2)
7	CATHODE G (DIGIT 2)
8	CATHODE C (DIGIT 2)
9	CATHODE D.P. (DIGIT 2)
10	CATHODE B (DIGIT 2)
11	CATHODE A (DIGIT 2)
12	CATHODE F (DIGIT 2)
13	COMMON ANODE (DIGIT 2)
14	COMMON ANODE (DIGIT 1)
15	CATHODE B (DIGIT 1)
16	CATHODE A (DIGIT 1)
17	CATHODE G (DIGIT 1)
18	CATHODE F (DIGIT 1)

ABSOLUTE MAXIMUM RATING AT Ta=25℃

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25℃ Per Segment	0.33	mA/℃
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35℃ to +85℃	
Storage Temperature Range	-35℃ to +85℃	
IR Reflow conditions as Page 6 of 6		

ELECTRICAL OPTICAL CHARACTERISTICS AT Ta=25℃

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2400		ucd	If=10mA
Peak Emission Wavelength	λp		650		nm	If=20mA
Special Line Half-Width	△λ		40		nm	If=20mA
Dominant Wavelength	λd		630		nm	If=20mA
Forward Voltage, Per Segment	Vf		2.0	2.6	V	If=20mA
Reverse Current, Per Segment	Ir			100	uA	Vr=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		If=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 CHARACTERISTICS CURVES (25℃ Ambient Temperature Unless Otherwise Note)

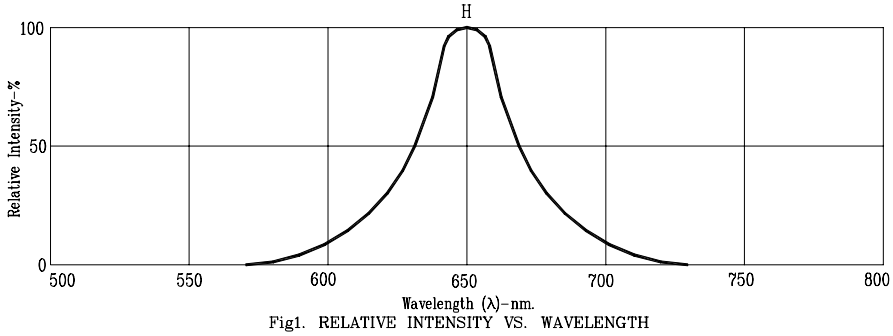


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

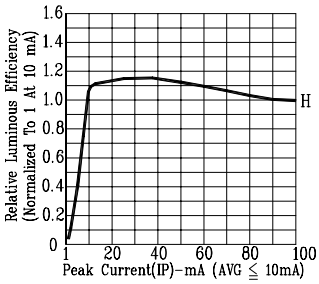


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)

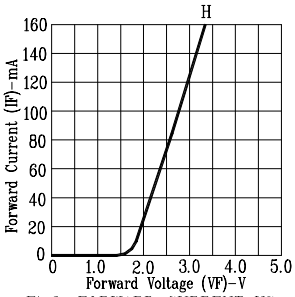


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

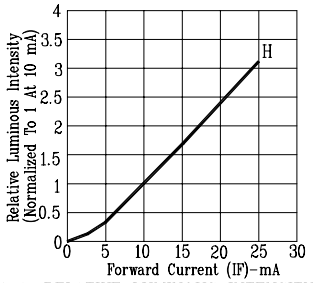


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

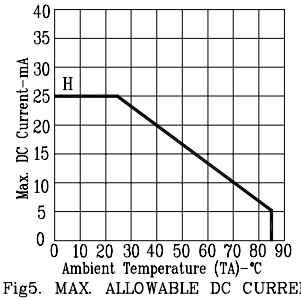


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

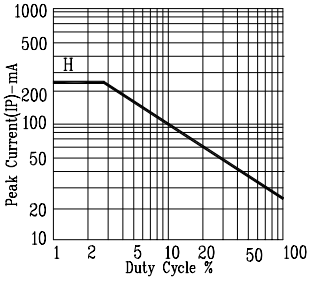


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: H=HI.EFF.−RED

IR REFLOW MAXIMUM RATING TEMPERATURE