Property of Lite-On Only

FEATURES

- *0.56 INCH (14.22 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-6960HR is a 0.56 inch (14.22 mm) digit height single digit seven-segment display. This device utilizes hi-eff. red LED chips, which are made from GaAsP on GaP substrate, and has a red face and red segments.

DEVICE

PART NO.	DESCRIPTION			
HI-EFF. RED	Common Anode			
LTS-6960HR	Rt. Hand Decimal			

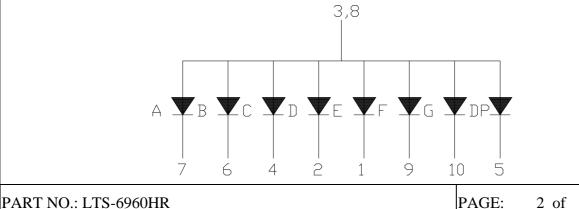
PART NO.: LTS-6960HR PAGE: 1 of 5

Property of Lite-On Only

PACKAGE DIMENSIONS 8.13[.320] BIN CODE DATE CODE 1.35[.053] PART NO. Π В G - ø1.7[D.067] PIN 1-12.6[.496]

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

INTERNAL CIRCUIT DIAGRAM



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15.24[.600]

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PIN CONNECTION

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

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	75	mW			
Peak Forward Current Per Segment	100	mA			
(1/10 Duty Cycle, 0.1ms Pulse Width)	100	1117-1			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 ^o C Per Segment	0.33	mA/ ⁰ C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35° C to $+85^{\circ}$ C				
Storage Temperature Range	-35° C to $+85^{\circ}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

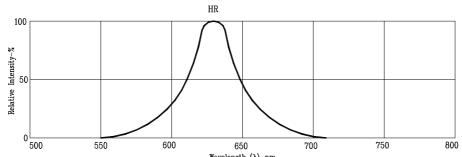
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	870	2400		μcd	I _F =10mA
Peak Emission Wavelength	λρ		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		623		nm	I _F =20mA
Forward Voltage Per Segment	V_{F}		2.0	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-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'Eclariage) eye-response curve.

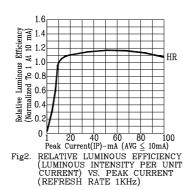
PART NO.: LTS-6960HR PAGE: 4 of 5 Property of Lite-On Only

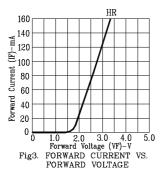
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



 $\label{eq:wavelength} \begin{tabular}{lll} Wavelength & $(\lambda)-nm$. \\ Fig1. RELATIVE INTENSITY VS. WAVELENGTH \\ \end{tabular}$

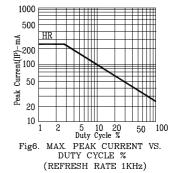




40
35
4 30
HR
30
HR
25
0 0 10 20 30 40 50 60 70 80 90
Ambient Temperature (TA)-°C
Fig5. MAX ALLOWABLE DC CURRENT
VS. AMBIENT TEMPERATURE.

4

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NOTE: HR=HI.-EFF.RED

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