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				

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

Property of Lite-On Only

PACKAGE DIMENSIONS 8.13[.320] BIN CODE DATE CODE 1.35[.053] PART NO. 17 В G Ε Ø1.7[D.067] PIN 1-12.6[.496] 15.24[.600] NOTES: All dimensions are in millimeters. Tolerance: ± 0.25-mm (0.01") unless otherwise noted. INTERNAL CIRCUIT DIAGRAM 3,8 A YB YC YD YE YF YG YDPY 10

PAGE:

2 of 5

BNS-OD-C131/A4

PART NO.: LTS-6960HR

Property of Lite-On Only

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

PART NO.: LTS-6960HR PAGE: 3 of 5

BNS-OD-C131/A4

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	A		
(1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA		
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°C				
Storage Temperature Range -35°C to +85°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	λр		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=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.

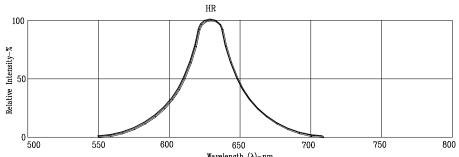
PART NO.: LTS-6960HR	PAGE:	4 of 5	
----------------------	-------	--------	--

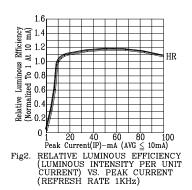
BNS-OD-C131/A4

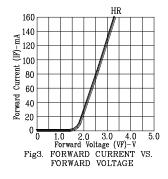
Property of Lite-On Only

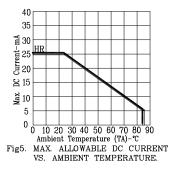
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

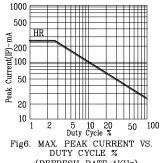








HR 0 5 10 15 20 25 30
Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



(REFRESH RATE 1KHz)

NOTE: HR=HI.-EFF.RED

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