



Spec No.: DS-30-97-273 Effective Date: 07/15/2000 Revision: -



BNS-OD-FC001/A4

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FEATURES

* 0.5-INCH (12.7-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 LTP-587HR is a 0.5-inch (12.7-mm) height 16-segment single digit alphanumeric display. This device utilizes high efficiency red LED chips, which are made from GaAsP on GaP substrate, and has a red face and red segments.

DEVICE

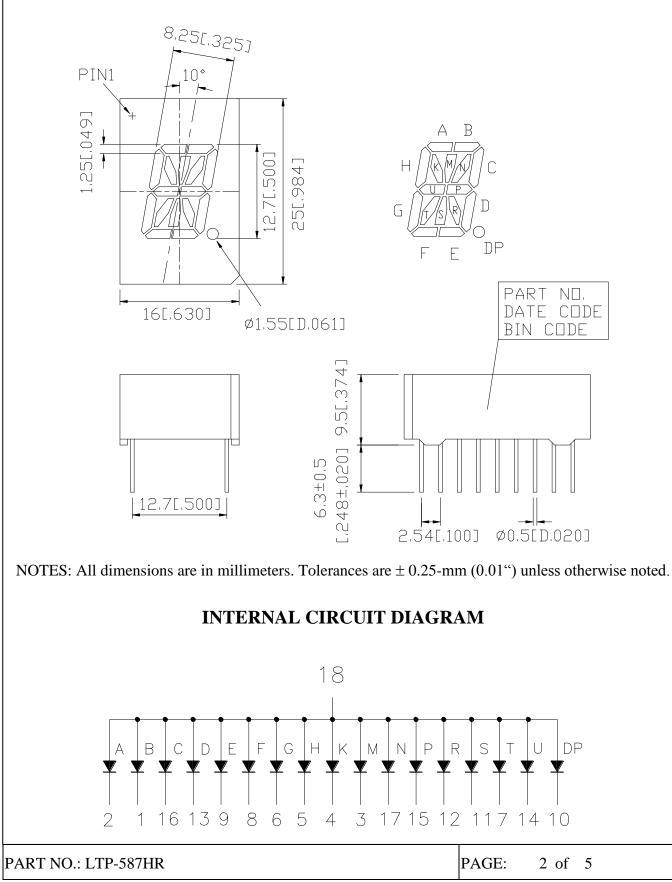
PART NO.	DESCRIPTION		
HIEFF. RED	Common Anode,		
LTP-587HR	Rt. Hand decimal		

PART	NO.:	LTP	-587HR	
1 1 11 1 1	1.0		50/110	-

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PACKAGE DIMENSIONS



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PIN CONNECTION

No.	CONNECTION			
1	CATHODE B			
2	CATHODE A			
3	CATHODE M			
4	CATHODE K			
5	CATHODE H			
6	CATHODE G			
7	CATHODE T			
8	CATHODE F			
9	CATHODE E			
10	CATHODE D.P.			
11	CATHODE S			
12	CATHODE R			
13	CATHODE D			
14	CATHODE U			
15	CATHODE P			
16	CATHODE C			
17	CATHODE N			
18	COMMON ANODE			

PART NO.: LTP-587HR

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

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 [°] C Per Segment	0.33	mA/ ⁰ C	
Reverse Voltage Per Segment	5	V	
Operating Temperature Range $-35^{\circ}C$ to $+85^{\circ}C$			
Storage Temperature Range $-35^{\circ}C$ to $+85^{\circ}C$			
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ⁰ C			

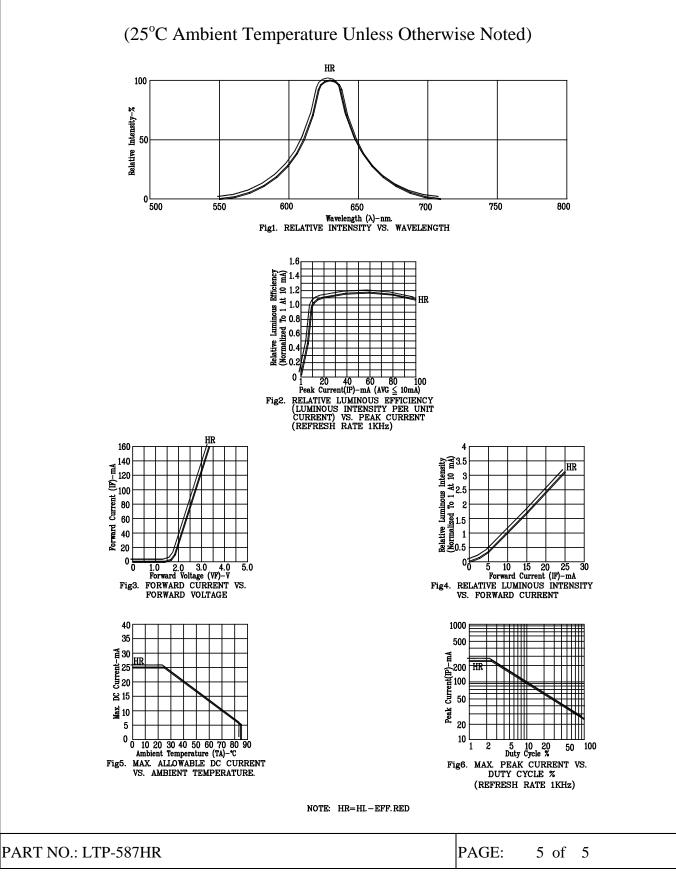
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	IF=10mA
Peak Emission Wavelength	λp		635		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		623		nm	IF=20mA
Forward Voltage. Per Segment	VF		2.0	2.6	V	IF=20mA
Reverse Current, Per Segment	Ir			100	μΑ	V _R =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'Eclariage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



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