



Spec No.: DS30-2000-202 Effective Date: 08/17/2000 Revision: -



BNS-OD-FC001/A4

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FEATURES

* 0.54 INCH (13.8 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-3786E-03 is a 0.54 inch (13.8 mm) digit height dual digit 14-segment alphanumeric display. This device utilizes red orange LED chips, which are made from GaAsP on GaP substrate, and has a light gray face and white segments.

DEVICE

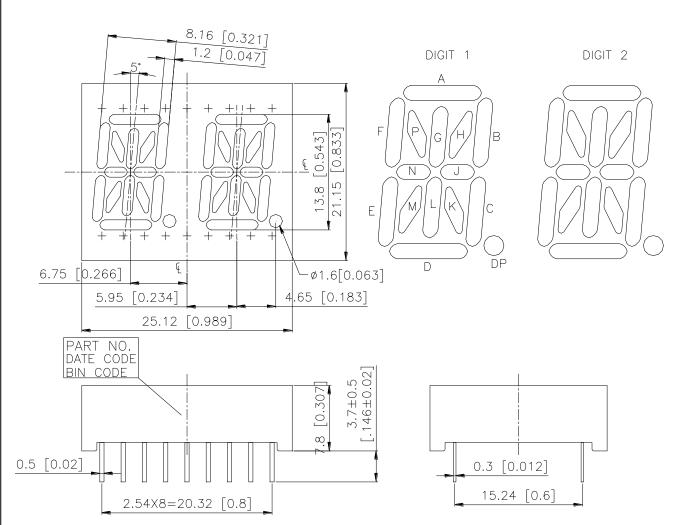
PART NO.	DESCRIPTION			
Red Orange	Duplex Common Anode			
LTP-3786E-03	Rt. Hand Decimal			

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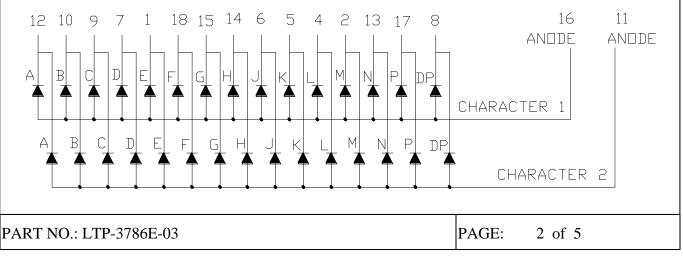
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NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 -mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM





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PIN CONNECTION

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

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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, 1.0ms Pulse Width)	100	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 ⁰ 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^{0} C to $+85^{0}$ C				
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2300		μcd	IF=10mA
Peak Emission Wavelength	λp		630		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		621		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'Eclairage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

