

# D0107LT-33-0701A\_Rev1A

## Vacuum Fluorescent Display Module

RoHS Compliant

**Newhaven Display International, Inc.**

2661 Galvin Ct.

Elgin IL, 60124

Ph: 847-844-8795

Fax: 847-844-8796

[www.newhavendisplay.com](http://www.newhavendisplay.com)

[nhtech@newhavendisplay.com](mailto:nhtech@newhavendisplay.com)

[nhsales@newhavendisplay.com](mailto:nhsales@newhavendisplay.com)

## Document Revision History

Revision	Date	Description	Changed by
0	4/26/03	Initial Release	-
1	6/2/20	Datasheet Reformat, Inclusion of 2D Mechanical Drawing Part Upgraded to Rev1A	AS
2	6/23/20	Inclusion of Grid Assignment & Anode Connection	AS

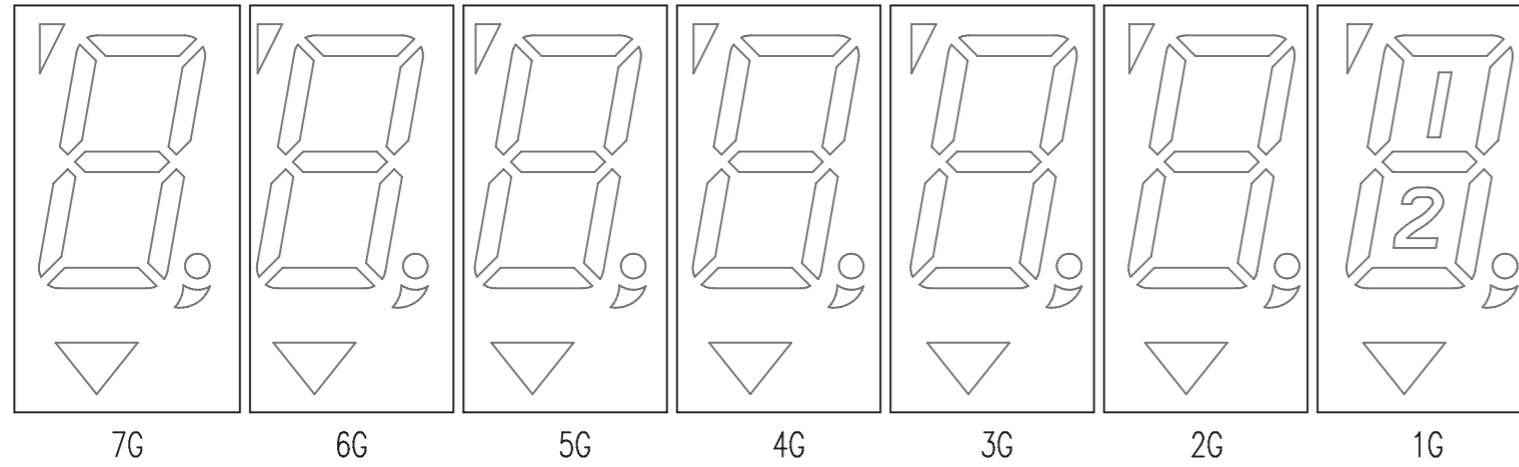
## Functions and Features

- 7 Digits
- 7-Segmented
- Character Display (7-Segmented)

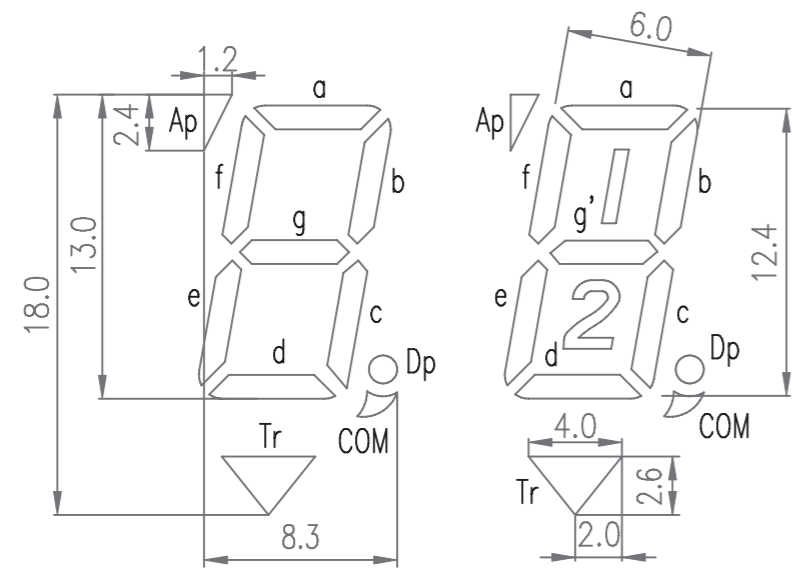


# Grid Assignment + Anode Connection

SYMBOL	REVISION	DATE



	1G	2G	3G	4G	5G	6G	7G
P1	Ap	Ap	Ap	Ap	Ap	Ap	Ap
P2	f	f	f	f	f	f	f
P3	—	g	g	g	g	g	g
P4	e	e	e	e	e	e	e
P5	d	d	d	d	d	d	d
P6	Tr	Tr	Tr	Tr	Tr	Tr	Tr
P7	COM	COM	COM	COM	COM	COM	COM
P8	DP	DP	DP	DP	DP	DP	DP
P9	c	c	c	c	c	c	c
P10	12	—	—	—	—	—	—
P11	g'	—	—	—	—	—	—
P12	b	b	b	b	b	b	b
P13	a	a	a	a	a	a	a



STANDARD TOLERANCE:  
(UNLESS OTHERWISE SPECIFIED)

LINEAR: ±0.3mm

UNLESS OTHERWISE SPECIFIED:  
- DIMENSIONS ARE IN MILLIMETERS  
- THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

NEWHAVEN DISPLAY INTERNATIONAL

DRAWING/PART NUMBER:  
**NHD-0107LT-33-0701A**

REVISION:  
1A

SIZE:  
A3

SCALE:  
NS

DRAWN BY: A. Shah  
APPROVED BY: A. Shah

DRAWN DATE: 6/23/20  
APPROVED DATE: 6/23/20

SHEET 1 OF 1

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## Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Operating Temperature Range	T <sub>OP</sub>	Absolute Max	-20	-	+70	°C
Storage Temperature Range	T <sub>ST</sub>	Absolute Max	-55	-	+80	°C
Filament Voltage	E <sub>F</sub>	-	2.97	3.3	3.63	Vac
Peak Grid Voltage	E <sub>C</sub>	-	31.5	35	38.5	Vp-p
Peak Anode Voltage	E <sub>B</sub>	-	31.5	35	38.5	Vp-p
Filament Current	I <sub>F</sub>	E <sub>F</sub> = 3.3Vac E <sub>B</sub> = E <sub>C</sub> = 0	121	135	149	mAac
Anode Current	I <sub>B/1G-7G</sub>	E <sub>F</sub> = 3.3Vac E <sub>B</sub> = 35.0Vp-p	-	6	12	mA <sub>p-p</sub>
Grid Current	I <sub>B/1G-7G</sub>	E <sub>C</sub> = 35.0Vp-p	-	7	14	mA <sub>p-p</sub>
Luminance	L <sub>G</sub>	D <sub>U</sub> = 1/10 T <sub>P</sub> = 100 μS	430	860	-	Cd/m <sup>2</sup>
Luminance Ratio	L <sub>max/min</sub>	-	-	-	2	-
Grid Cut-off Voltage	E <sub>CCO</sub>	E <sub>F</sub> = 3.3Vac E <sub>B</sub> = 35.0Vdc	-4	-	-	Vdc
Anode Cut-off Voltage	E <sub>BCO</sub>	E <sub>F</sub> = 3.3Vac E <sub>C</sub> = 35.0Vdc D <sub>U</sub> = 1/10 T <sub>P</sub> = 100 μS	-2	-	-	Vdc
Duty Cycle	D <sub>U</sub>	-	-	1/10	-	-
Pulse Width	T <sub>P</sub>	-	-	100	-	μS