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NEWHAVEN DISPLAY INTERNATIONAL

User's Guide

D0106LT-33-0604N

VFD- RoHS Compliant

(Vacuum Fluorescent Display Module)

For product support, contact

Newhaven Display International
2511 Technology Drive, #101
Elgin, IL 60124
Tel: (847) 844-8795 Fax: (847) 844-8796

February 20, 2008

NEWHAVEN DISPLAY INTERNATIONAL

October 31, 2006

Vacuum Fluorescent Display Specification

PART NUMBER: **D0106LT-33-0604N**

FEATURES: 6 Digits, 7-Segmented, Instrumentation

APPLICATION: Character Display (*7-Segmented*)

RATINGS: Below

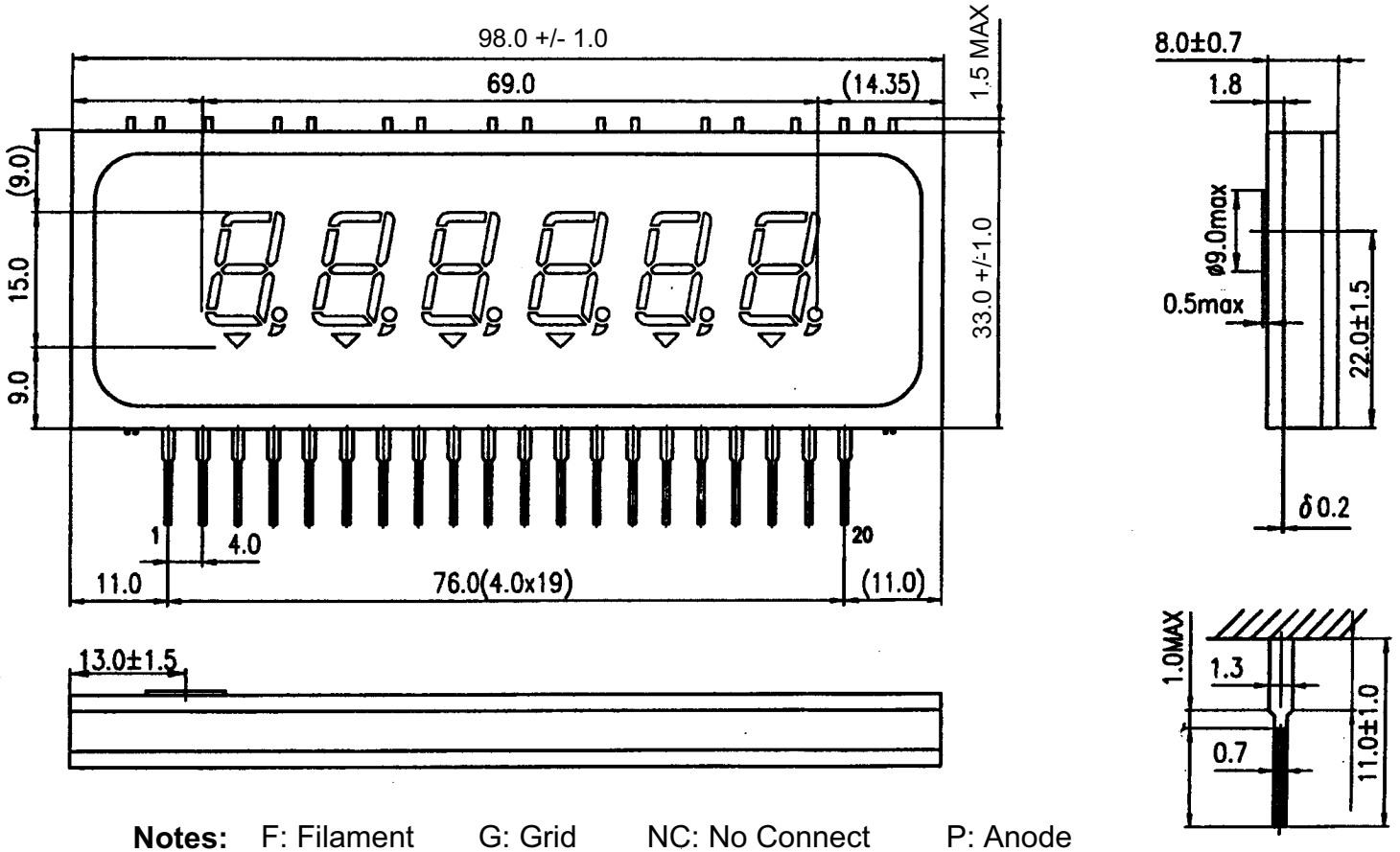
Outer Dimensions	Panel Length	P.L.	98.0	mm
	Panel Height	P.H.	33.0	mm
	Panel Thickness	P.T.	8.0	mm
Leads	Lead Pitch	L.P.	2.54	mm
	Lead Out	-	SIL	
Character Size	Character Height	C.H.	12.4	mm
	Character Width	C.W.	6.8	mm

Item	Symbol	Min.	Recommended	Max.	Unit
Filament Voltage	Ef	3.42	3.8	4.12	Vac
Peak Grid Voltage	ec	-	26.0	33.0	Vp-p
Peak Anode Voltage	eb	-	26.0	33.0	Vp-p
-	-	-	-	-	-
Duty Cycle	Du	-	1/7	-	-
Pulse Width	tp	-	200	-	uS
Operating Temperature	Topr	-20	-	+ 70	C
Storage Temperature	Tstg	-55	-	+ 80	C
Color of Illumination	Green				

D0106LT-33-0604N

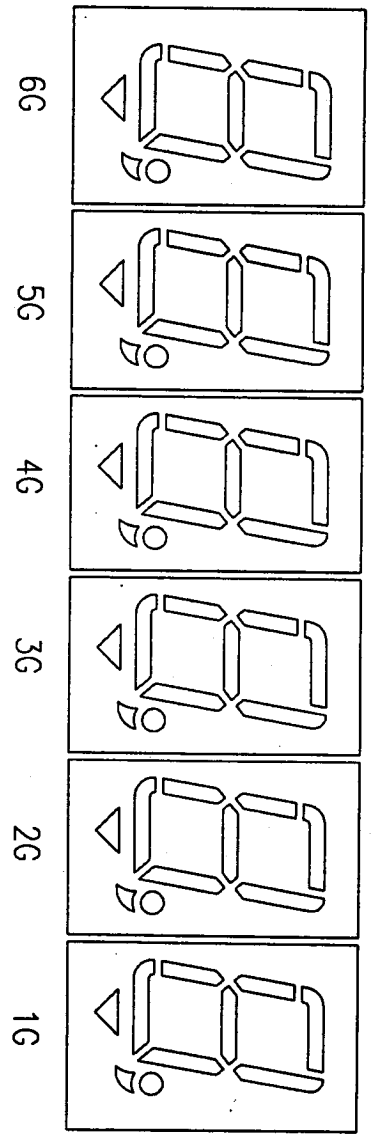
Electrical Characteristics

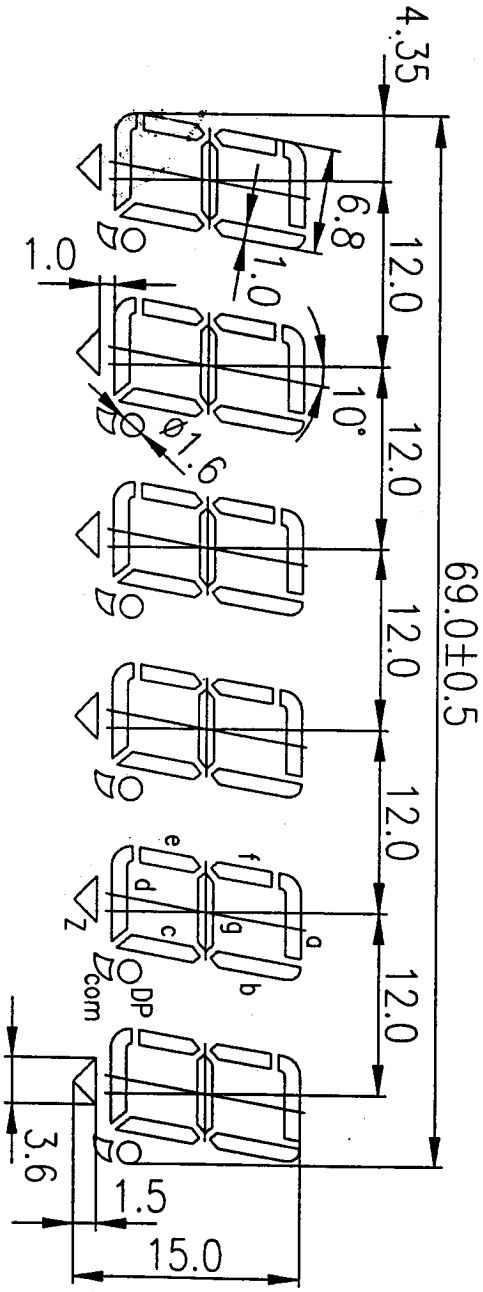
Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	If -	Ef = 3.8 V_{ac} eb = ec = 0	97.0 -	108.0 -	119.0 -	mA_{ac} -
Anode Current	ib/1G~6G - - - -	Ef = 3.8 V_{ac} eb = 26.0 V_{p-p} ec = 26.0 V_{p-p} Du = 1/7 Tp = 200 uS	- - - - -	5.0 - - - -	10.0 - - - -	mAp-p mAp-p mAp-p mAp-p mAp-p
Grid Current	ic / 1G~6G - - - -		- - - - -	7.0 - - - -	14.0 - - - -	MA_{p-p} MA_{p-p} MA_{p-p} MA_{p-p} MA_{p-p}
Luminance	L(G) -		350 (102)	700 (204)	-	cd/m^2 fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 3.8 Vac eb = 26.0 Vdc	-4.0	-	-	V_{dc}
Anode Cut-off Voltage	Ebco	Ef = 3.8 Vac ec = 26.0 Vp-p Du = 1/7 Tp = 200uS	-2.0	-	-	V_{dc}



Notes: F: Filament G: Grid NC: No Connect P: Anode

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Connect	F	NC	6G	P(g)	P(f)	5G	P(e)	P(d)	4G	P(Z)	NC	3G	P(com)	P(DP)	2G	P(c)	P(b)	1G	P(a)	F


6G
5G
4G
3G
2G
1G


4.35
6.8
1.0
12.0
1.0
10°
φ1.6
69.0±0.5
e
d
c
DP
com
f
g
a
b
3.6
1.5
15.0

	1G	2G	3G	4G	5G	6G
P1	a	a	a	a	a	a
P2	b	b	b	b	b	b
P3	c	c	c	c	c	c
P4	dp	dp	dp	dp	dp	dp
P5	com	com	com	com	com	com
P6	▷	▷	▷	▷	▷	▷
P7	d	d	d	d	d	d
P8	e	e	e	e	e	e
P9	f	f	f	f	f	f
P10	g	g	g	g	g	g