

## User's Guide

# C-25-0629

# VFD

(Vacuum Fluorescent Character Display Module)

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October 3 0, 2006

# Vacuum Fluorescent Display Specification

**PART NUMBER:** C-25-0629

**FEATURES:** 9 Digits, Alphanumeric, with Icons – DVD

**APPLICATION:** DVD- Character Display  
(Alphanumeric)

**RATINGS:** Below

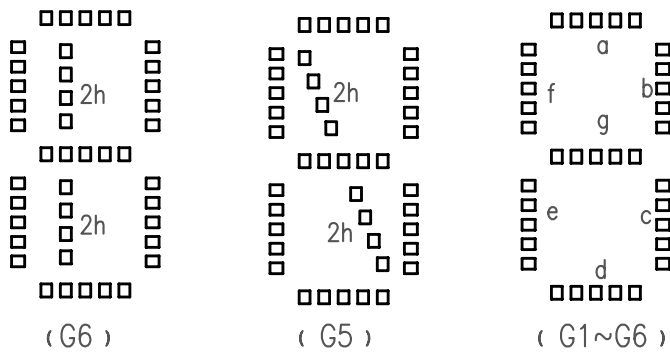
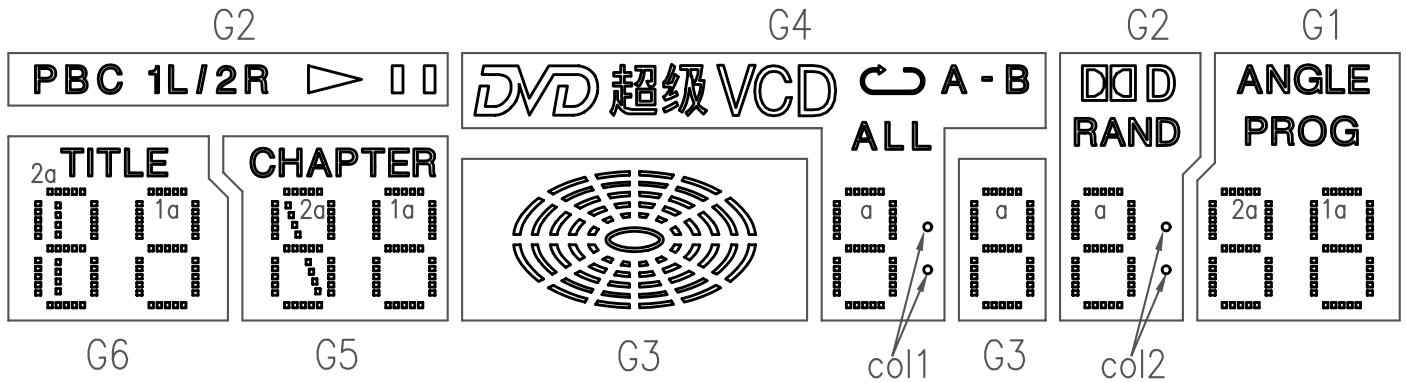
<b>Outer Dimensions</b>	Panel Length	P.L.	100.0	mm	
	Panel Height	P.H.	25.0	mm	
	Panel Thickness	P.T.	6.5	mm	
<b>Leads</b>	Lead Pitch	L.P.	2.54	Mm	
	Lead Out	-	SIL		
<b>Character Size</b>	Character Height	C.H.	-	mm	
	Character Width	C.W.	-	mm	
<b>Item</b>	<b>Symbol</b>	<b>Min.</b>	<b>Recommended</b>	<b>Max.</b>	<b>Unit</b>
<b>Filament Voltage</b>	Ef	3.15	3.5	3.85	Vac
<b>Peak Grid Voltage</b>	Ec	-	20.0	22.0	Vp-p
<b>Peak Anode Voltage</b>	Eb	-	20.0	22.0	Vp-p
<b>Cut-off Bias</b>	Ek	-	-	-	-
<b>Duty Cycle</b>	Du	-	1/7	-	-
<b>Pulse Width</b>	Tp	-	100	-	uS
<b>Operating Temperature</b>	Topr	-20	-	+ 80	C
<b>Storage Temperature</b>	Tstg	-55	-	+ 85	C
<b>Color of Illumination</b>	Green / Ysh.O / Ysh.G				

## Electrical Characteristics

Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
<b>Filament Current</b>	If -	Ef = 3.5 Vac eb = ec = 0	126.0 -	140.0 -	154.0 -	mAac -
<b>Anode Current</b>	ib/6G	Ef = 3.5 Vac eb = 20.0 Vp-p ec = 20.0 Vp-p Du = 1/7 tp = 100 uS	-	3.0	6.0	mA <sub>p-p</sub>
	ib/5G		-	4.0	8.0	mA <sub>p-p</sub>
	ib/1G		-	5.0	10.0	mA <sub>p-p</sub>
	ib/2,3G		-	7.0	14.0	mA <sub>p-p</sub>
	ib/4G		-	9.0	18.0	mA <sub>p-p</sub>
<b>Grid Current</b>	ic/6G		-	5.0	10.0	mA <sub>p-p</sub>
	ic/1,5G		-	7.0	14.0	mA <sub>p-p</sub>
	ic/2G		-	9.0	18.0	mA <sub>p-p</sub>
	ic/3,4G		-	11.0	22.0	mA <sub>p-p</sub>
	-		-	-	-	mA <sub>p-p</sub>
<b>Luminance</b>	L(G)		350 (102)	700 (204)	-	cd/m <sup>2</sup> (fL)
	L(Ysh.G)		140 (41)	280 (82)		cd/m <sup>2</sup> (fL)
	L(Ysh.O)		60 (17)	120 (34)		cd/m <sup>2</sup> (fL)
<b>Luminance Ratio</b>	Lmin/Lmax		50	-	-	%
<b>Grid Cut-off Voltage</b>	Ecco	Ef = 3.5 Vac Eb = 20.0 Vdc	-4.5	-	-	Vdc
<b>Anode Cut-off Voltage</b>	Ebco	Ef = 3.5 Vac ec = 20.0 Vp-p Du = 1/7 tp = 100 uS	-4.5	-	-	Vdc

Drive Mode: Dynamic State

附图2: 显示内容及栅极分割 ( Display Pattern And Grid Assignment )



显示颜色 ( color of illumination ):

黄橙色 ( Ysh.O ): **PBC** **DVD 超级** **A-B** **RAND** S2, S5  
 ( x=0.527, y=0.465 )

黄绿色 ( Ysh.G ): **▷** S1, S4  
 ( x=0.292, y=0.617 )

绿色 ( Green ): 其余 ( Others )  
 ( x=0.250, y=0.440 )

附图 3: 阳极连接 (Anode Connection)

型号 Type No.: VFD25-0629

	G6	G5	G4	G3	G2	G1
P1	TITLE	CHAPTER			PBC	ANGLE
P2	2h	2h	超级	s7	1L	PROG
P3	2d	2d	VCD	s6	/	2d
P4	2e	2e	DVD	s5	2R	2e
P5	2c	2c	C	s4	▷	2c
P6	2g	2g	A	s3	□□	2g
P7	2f	2f	-B	s2	DDD	2f
P8	2b	2b	ALL	s1	RAND	2b
P9	2a	2a	col1		col2	2a
P10	1d	1d	d	d	d	1d
P11	1e	1e	e	e	e	1e
P12	1c	1c	c	c	c	1c
P13	1g	1g	g	g	g	1g
P14	1f	1f	f	f	f	1f
P15	1b	1b	b	b	b	1b
P16	1a	1a	a	a	a	1a