

## User's Guide

# C-25-0104

# VFD

(Vacuum Fluorescent Character Display Module)

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October 31, 2006

# Vacuum Fluorescent Display Specification

**PART NUMBER:** **C-25-0104**


**FEATURES:** 2 Digits – Seven Segmented

**APPLICATION:** Automotive- Temp Control- HVac

**RATINGS:** Below

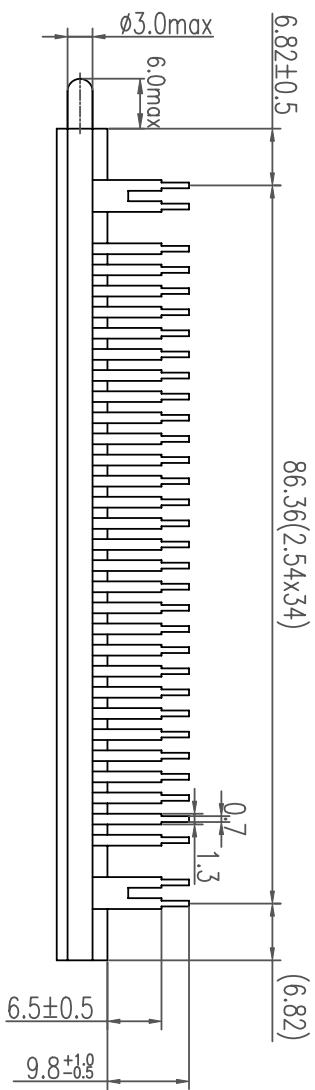
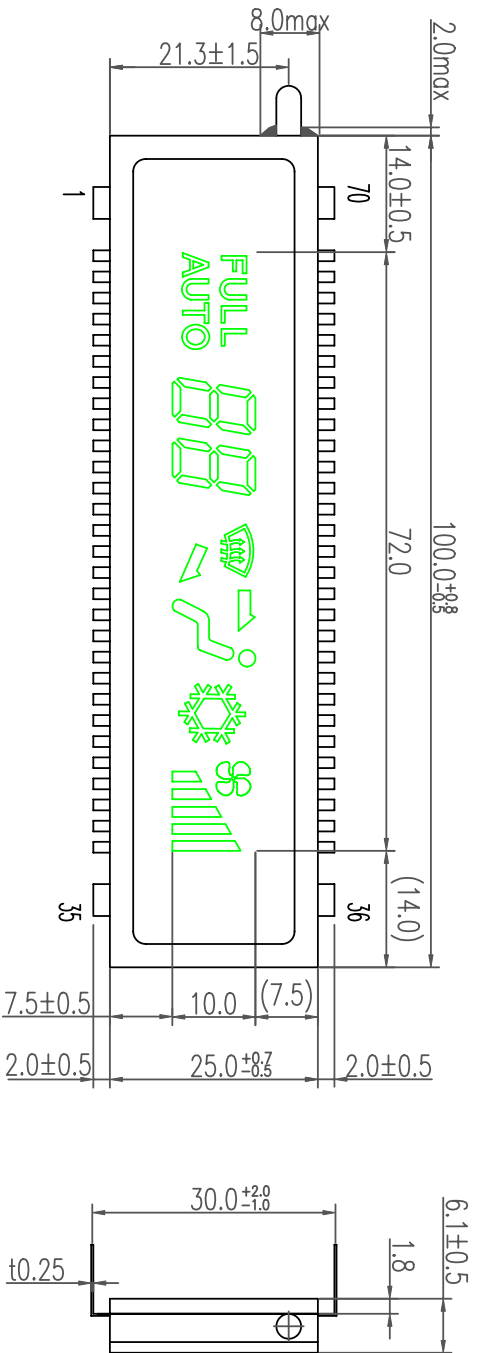
<b>Outer Dimensions</b>	Panel Length	P.L.	100.0	mm	
	Panel Height	P.H.	25.0	mm	
	Panel Thickness	P.T.	6.1	mm	
<b>Leads</b>	Lead Pitch	L.P.	2.54	mm	
	Lead Out	-	DIL		
<b>Character Size</b>	Character Height	C.H.	-	mm	
	Character Width	C.W.	-	mm	
<b>Item</b>	<b>Symbol</b>	<b>Min.</b>	<b>Recommended</b>	<b>Max.</b>	<b>Unit</b>
<b>Filament Voltage</b>	Ef	2.88	3.20	3.52	Vdc
<b>Peak Grid Voltage</b>	ec	10.5	12.5	15.0	Vdc
<b>Peak Anode Voltage</b>	eb	10.5	12.5	15.0	Vdc
<b>Duty Cycle</b>	Du	-	-	-	-
<b>Pulse Width</b>	tp	-	-	-	-
<b>Operating Temperature</b>	Top	-40	-	+ 80	C
<b>Storage Temperature</b>	Tstg	-55	-	+ 85	C
<b>Color of Illumination</b>	Green				

**Electrical  
Characteristics**

Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	lf	Ef = 3.2 Vdc	167.0	185.0	204.0	mAdc
	-	eb = ec = 0	-	-	-	-
Anode Current	ib / S4,S5,S8, B1~B5	Ef = 3.2 Vdc	-	.85	1.5	mAdc
	ib/ S1,S2,S3, S6,S7	eb = 12.5 Vdc	-	1.7	2.9	mAdc
	ib/ 	ec = 12.5 Vdc	-	1.8	3.0	mAdc
	-		-	-	-	-
	-		-	-	-	-
Grid Current	ic /G		-	26.0	45.0	mAdc
	-		-	-	-	-
	-		-	-	-	-
	-		-	-	-	-
	-		-	-	-	-
Luminance	L(G)		1450 (423)	2900 (846)	-	cd/m <sup>2</sup> /fL
	-		-	-	-	cd/m <sup>2</sup> /fL
	-		-	-	-	cd/m <sup>2</sup> /fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 3.2 Vdc Eb = 12.5 Vdc	-0	-	-	Vdc
Anode Cut-off Voltage	Ebco	Ef = 3.2 Vdc ec = 12.5 Vdc	-0	-	-	Vdc

**DRIVE MODE: Dynamic State**

附图 1: 外形图 Outline Drawing (Unit:mm)



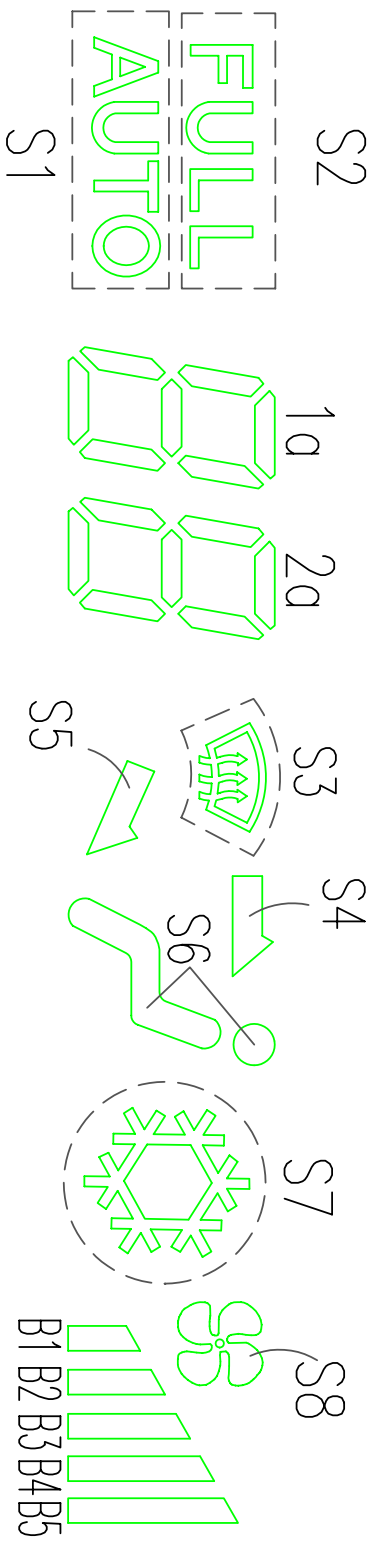
引脚连接 (PIN CONNECTION)

端子序号 (PIN NO.)	70	69	68	53-67	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36		
连接 (CONNECTION)	F(-)	F(-)	Np	NC	S1	S2	S3	S4	S5	S6	S7	S8	B1	B2	B3	B4	B5	IC	Np	F(+)	F(+)		
端子序号 (PIN NO.)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18-30	31	32	33	34	35
连接 (CONNECTION)	F(-)	F(-)	Np	1a	1b	1c	1d	1e	1f	1g	2a	2b	2c	2d	2e	2f	2g	NC	G	IC	Np	F(+)	F(+)

注: F: 灯丝 (Filament) G: 栅极 (Grid) NP: 无引脚 (No Pin) NC: 无连接 (No Connection)

IC: (Internal connection)

附图2：显示内容 Display Pattern



显示颜色: (color of illumination)

绿色 (Green):(x=0.250,y=0.440) 全部 All the patterns

