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Seann: 2000 SGS

User's Guide

C-40-0701A

VFD

(Vacuum Fluorescent Character Display Module)

—For product support, contact

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October 31, 2006



Vacuum Fluorescent Display Specification

PART NUMBER: C-40-0701A

FEATURES: 5 Digits, Custom Seven Segmented, with Icons – Microwave oven

APPLICATION: Character Display (*Custom 7-Seg*)

RATINGS: Below

	Panel Length	1	P.L.	86.0	mm		
Outer Dimensions	Panel Height		P.H.	40.0	mm		
	Panel Thickn	ess	P.T.	8.5	mm		
Leads	Lead Pitch		L.P.	2.54	mm		
	Lead Out		-	SIL			
Character Size	Character He	eight	C.H.	-	mm		
	Character Wi	dth	C.W.	-	mm		
Item	Symbol	Min.	Recommended	Max.	Unit		
Filament Voltage	Ef	2.8	3.10	3.4	Vac		
Peak Grid Voltage	Ec	-	28.0	31.0	Vac Vp-p		
Peak Anode Voltage	Eb		28.0	31.0			
		-			Vp-p		
Cut-off Bias	Ek	-	-	-	-		
Duty	Du	-	1/7.79	-	-		
Cycle	_						
Pulse Width	Тр	-	920	-	uS		
Operating Temperature	Topr	-40	-	+ 80	С		
Storage Temperature	Tstg	-55	-	+ 85	С		
Color of Illumination	Green / Red						

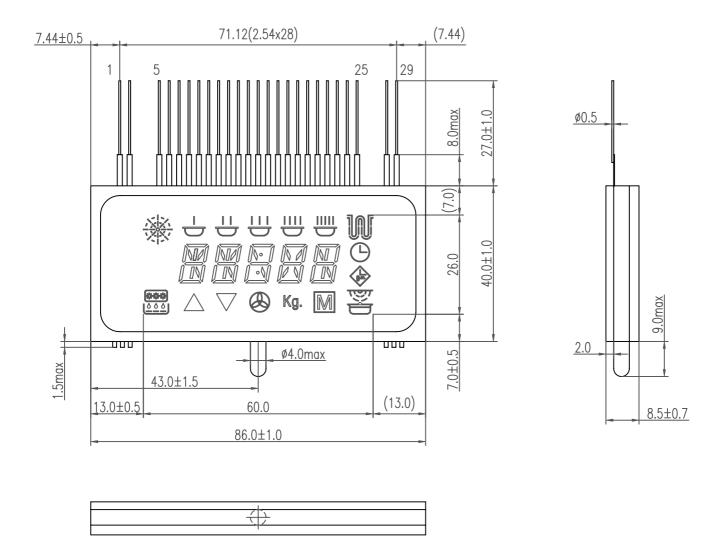
C-40-0701A

Electrical Characteristics

Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Ellere and Orange	16	Et. O.4.V.	405.0	000.0	000.0	A
Filament Current	If -	Ef = 3.1 Vac	185.0	208.0	230.0	mAac
	-	eb = ec = 0	-	-	-	-
Anode Current	ib/1G,4G	Ef = 3.1 Vac	-	10.0	20.0	mAp-p
Alloue ourient	ib/2G	eb = 28.0 Vp-p	_	-	-	mAp-p
	ib/3G	ec = 28.0 Vp-p	_	_	-	mAp-p
	-	Du = 1/7.79	_	_	-	mAp-p
	_	tp = 920 uS	_	_	-	mAp-p
						пи ф
Grid Current	ic/1G, 4G		-	10.0	20.0	mAp-p
	ic/2G		-	-	-	mAp-p
	ic/3G		-	-	-	mAp-p
	-		-	-	-	mAp-p
	-		-	-	-	mAp-p
	L(G)		350	700	-	cd/m ²
			(102)	(204)		(fL)
Luminance	L(R)		35	70	-	cd/m ²
			(10.2)	(20.4)		(fL)
	-		-	-	-	cd/m ²
						(fL)
	Lmin/Lmax					
Luminance Ratio			50	-	-	%
	_					
Out a Court of Maria	Ecco	Ef = 3.1 Vac	4 =			
Grid Cut-off Voltage		Eb = 28.0 Vdc	-4.5	-	-	Vdc
	Ebco	Ef = 3.1 Vac				
Anode Cut-off Voltage	LUCU	ec = 28.0 Vp-p	-3.0	_	_	Vdc
Juo Jul on Tonage		Du = 1/7.79	0.0			
		tp = 920 uS				
			_			

Drive Mode: Dynamic state

附图 1: 外形图 Outline Drawing (Unit:mm)



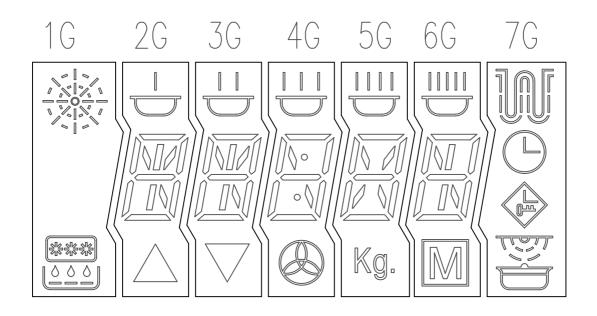
管脚连接: (Pin Connection)

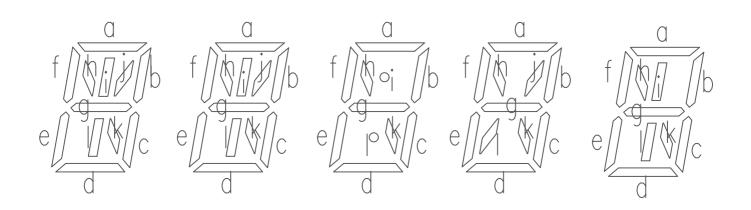
端子序号(Pin No)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
连接(Connection)	F	F	Np	NP	1G	P14	P13	P12	2G	P11	P10	3G	Р9	P8	4G	Р7	Р6	P5	5G	P4
端子序号(Pin No)	21	22	23	24	25	26	27	28	29											
连接(Connection)	P3	6G	P2	P1	7G	NP	NP	F	F											

注: F: 灯丝 (Filament) P: 阳极 (Anode) []: 欄板 (Grid) NP: 无引脚(No Pin)

编号 Mark:

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





显示颜色 (color of illumination)

红色 (Red): (x=0.627,y=0.371)



绿色 (Green):(x=0.250,y=0.440) others

附图3: 阳极连接 Anode Connection

	1 G	2G	3G	4G	5G	6G	7G
P1		a	a	a	а	a	
P2		b	b	b	b	Ь	
P3		С	С	С	С	С	
P4		d	d	d	d	d	TOT
P5		\oplus	е	е	е	\bigcirc	
P6		f	f	f	f	f	
P7	0						
P8		g	g	g	g	g	
P9			h	h	h		
P10		•	•	•		•	
P11		j	j		j		
P12		K	k	k	k	K	
P13							
P14		\triangle		@	Kg.	M	

注:具体应用时可将1G和7G合并为同一栅极