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Senon SGS

User's Guide

C-58-0601

VFD

(Vacuum Fluorescent Character Display Module)

—For product support, contact

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October 31, 2006



Vacuum Fluorescent Display Specification

PART NUMBER: C-58-0601

FEATURES: 6 Digits, Seven Segmented, with Icons – AUTOMOTIVE

APPLICATION: Character Display (7-Segmented)

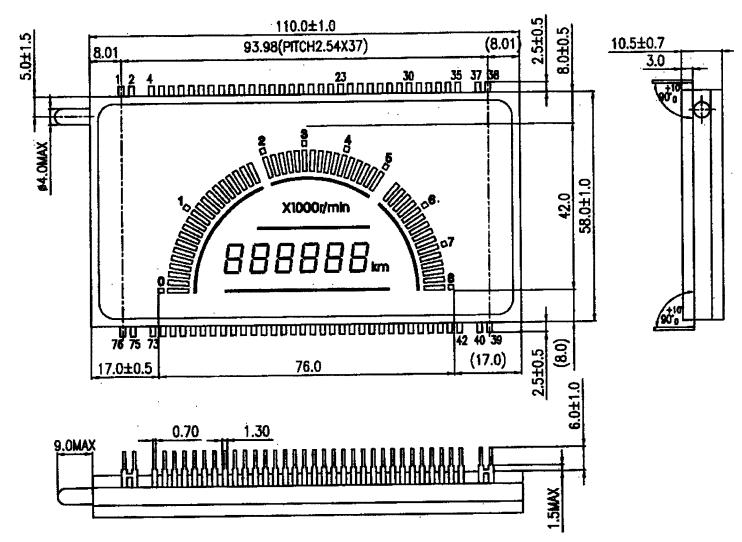
RATINGS: Below

	Panel Length	1	P.L.	110.0	mm			
Outer Dimensions	Panel Height	•	P.H.	58.0	mm			
	Panel Thickn	iess	P.T.	10.5	mm			
Leads	Lead Pitch		L.P.	2.54	mm			
	Lead Out		-	SIL				
Character Size	Character He	eight	C.H.	7.6	mm			
	Character W	idth	C.W.	4.3	mm			
			İ					
Item	Symbol	Min.	Recommended	Max.	Unit			
Filament Voltage	Ef	3.78	4.2	4.62	Vac			
Peak Grid Voltage	ec	-	32.0	38.0	Vp-p			
Peak Anode Voltage	eb	-	32.0	38.0	Vp-p			
Cut-off Bias	Ek	-	-	-	-			
Duty	Du	-	1/7	-	-			
Cycle								
Pulse Width	tp	-	100	-	uS			
Operating Temperature	Topr	-30	-	+ 85	С			
Storage Temperature	Tstg	-40	-	+ 100	С			
			·					
Color of Illumination		Green / Red						

Electrical Characteristics

Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	If	Ef = 4.2 Vac	340.0	378.0	416.0	mAac
	-	eb = ec = 0	_	-	-	-
Anode Current	ib/1G	Ef = 4.2 Vac	-	40.0	80.0	mAp-p
	ib/2,3G	eb = 32.0 Vp-p	-	32.0	64.0	mAp-p
	lb/4,5G	ec = 32.0 Vp-p	-	8.0	16.0	mAp-p
	lb/6G	Du = 1/7	-	15.0	30.0	mAp-p
	-	tp = 100 uS	-	-	-	mAp-p
Grid Current	ic/1G		-	38.0	76.0	mAp-p
	ic/2,3G		-	30.0	60.0	mAp-p
	ic/4,5G		-	7.5	15.0	mAp-p
	ic/6G		-	14.0	28.0	mAp-p
	-		-	-	-	mAp-p
	L(G)		1500	2060	-	cd/m ²
			(437)	(600)		(fL)
Luminance	L(R)		146	292	-	cd/m ²
•	, ,		(44)	(88)	-	(fL)
	_		-	_	=	cd/m ²
			_	_	_	(fL)
	Lmin/Lmax					
Luminance Ratio			70	-	-	%
	Ecco	Ef = 4.2 Vac				
Grid Cut-off Voltage		Eb = 32.0 Vdc	-6.0	-	-	Vdc
	Ebco	Ef = 4.2 Vac				
Anode Cut-off Voltage		ec = 32.0 Vp-p	-6.0	-	-	Vdc
		Du = 1/7				
		tp = 100 uS				

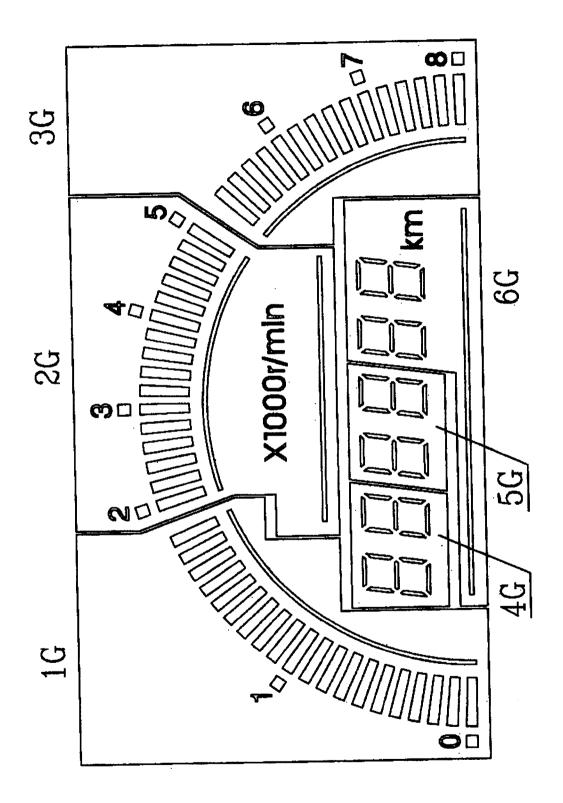
^{*} Drive Mode = Dynamic State

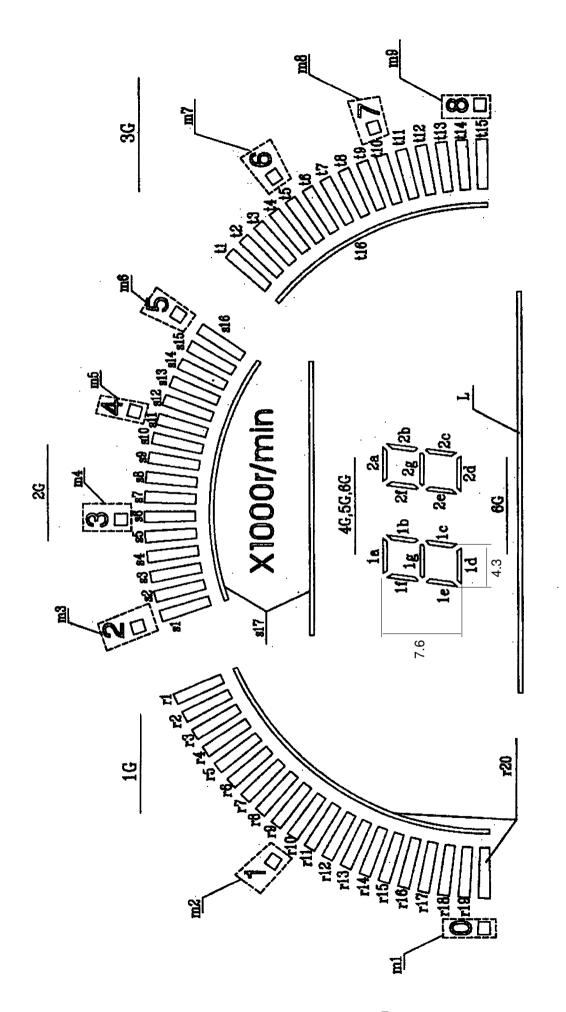


Pinout Connections

Pin No.	1	2	3	. 4	5	6	1.7	8	9	10	11.	12	13 14	1 15	16 17	18	19	20
Connect	F1	F1	Np	P1.	P2	P3	P4	P5	P6	P7	P8	P9	P10 P1	1 P12	P13 P1	4 P15	P16	
Pin No.	21	22	23	24	~29	30	31	32	33	34	35	36	37~4	0 41	42~73	74	75	76
Connect	P18	P19	P20		lc	1G	2G	3G	4G	5G	6G	Np	F2	Np	Nc	Np	<u>F1</u>	F1

F: Filament G: Grid P: Anode NP: No Pin NC: No Connection





t5~t15 · m? ·m8 · m9

ιυ.

	1G	2G	3G	4G	5G	6G
P1	r16	s16			•	
P2	r15	s15	t1	1a	1σ	1a
Р3	r14	s14	t2	1f	1f	1f
P4	r13	s13	t3	1b	1b	1b
P5	r12	s12	t4	1g	.1g	1g
P6	r11	s11.	t5	1e	1e	1e
P7	r10	s10	t6	1c	1c	1c
P8	r9	s9	t7	1d	.1d	1d
P9	r8	s8	t8			
P10	r7	s7	t9	2a	2a	2a
P11	r6	s6	t10	2f	2f	2f
P12	r5	s5	t11 .	2b	2b	2b
P13	r4	s4	t12	2g	2g	2g
P14	r3	s3	t13	2e	2e	2e
P15	r2	s2	t14	2c	2c	2c
P16	r1	s1	t15	2d	2d	2d
P17	r17					
P18	r18	·				
P19	r19					
P20	r20.m1.m2	m3.m4.m5. m6.s17	m7.m8.m9			km.L
		X1000r/mln	t16			