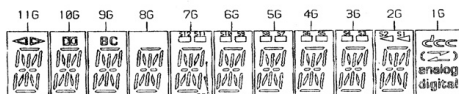
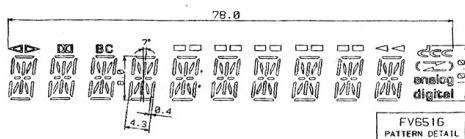


Best.Nr. 120120



PIN NO.	9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CONNECTION	F	F	N	N	M	S	B	T	C	A	I	N	N	P	P	P	P	P	P

NOTE 1) F1,F2 --- Filament
2) NP ----- No pin
3) NC ----- No connection
4) DL ----- Datum Line
5) 1G~11G --- Grid



FV651G
GRID ASSIGNMENT

ANODE CONNECTION

P1	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P2				-	\$11	\$9	\$7	\$5	\$3	\$1	-
P3	a	a	a	a	\$12	\$10	\$8	\$6	\$4	\$2	-
P4	b	b	b	b	b	b	b	b	b	b	-
P5	f	f	f	f	f	f	f	f	f	f	-
P6	k	k	k	k	k	k	k	k	k	k	-
P7	j	j	j	j	j	j	j	j	j	j	-
P8	h	h	h	h	h	h	h	h	h	h	-
P9	m	m	m	m	m	m	m	m	m	m	-
P10	g	g	g	g	g	g	g	g	g	g	-
P11	n	n	n	n	n	n	n	n	n	n	-
P12	p	p	p	p	p	p	p	p	p	p	-
P13	r	r	r	r	r	r	r	r	r	r	-
P14	c	c	c	c	c	c	c	c	c	c	-
P15	e	e	e	e	e	e	e	e	e	e	-
P16	d	d	d	d	d	d	d	d	d	d	-
P17	-	-	-	-	co	-	-	-	-	-	-

Features GRIDE = 17 ANODE
Color of Illumination Graan (G. x=0.235, y=0.405)

Outer Dimension	Panel Length	P.L.	106,0	mm
	Panel Height	P.H.	20,5	mm
	Panel Thickness	P.T.	6,1	mm
Lead	Lead Pitch	L.P.	2,54	mm
	Lead Out		SIL	

Ratings

Item	Symbol	Min.	Recommended	Max.	Unit
Filament Voltage	*1 Ef	3.33	3.7	4.07	V
Peak Grid Voltage	ec	—	32	38	Vp-p
	eb1 (G)	—	32	38	Vp-p
Peak Anode Voltage (At following Du)	eb ()	—	—	—	Vp-p
	eb ()	—	—	—	Vp-p
	eb ()	—	—	—	Vp-p
Cut-off Bias	Ek	—	4.6	—	Vdc
Duty Factor	Du	—	1/13.75	—	—
Pulse Width	Ip	—	80	—	μs
Diffusion Grid Voltage	Ecd	—	—	—	Vdc
Filament damper Voltage	Ecd	—	—	—	Vdc
Operating Temperature	Topr	-25	—	+70	°C
Temperature	Tstg	-50	—	+80	°C

DIMENSIONS : 106X20.5X6.1
VIEWING AREA: 10X78

LUMINOUS COLOUR : GREEN (GX = 0.235, Y = 0.405)

FILAMENT VOLTAGE : Ef 3.7 V AC
ANODE VOLTAGE : Eb 32 Vp-p
GRID VOLTAGE : Ec 32 Vp-p
DUTY FACTOR : Du 1/13.75

Electrical Characteristics

Item	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Filament Current	Ef = 2.7 Vac eb = ec = 0	If	90	100	110	mA
Anode Current	Ef = 3.7 Vac ec = 3z μ p-s eb(G) = 32 Vp-p eb() = Vp-p eb() = Vp-p eb() = Vp-p	ib/ 2G-11G	—	6.5	13	mA
		ib/ 1G	—	10	20	mA
		ib/—	—	—	—	mA
		ib/—	—	—	—	mA
		ib/—	—	—	—	mA
		ib/—	—	—	—	mA
Grid Current	*(Ek = 4.6 Vdc) tp = 80 μ s tblank = 20 μ s Du = 1/13.75 Ecd = Vdc	ic/ ZG-11G	—	7.5	15	mA
		ic/ G	—	9.0	18	mA
		ic/—	—	—	—	mA
		ic/—	—	—	—	mA
Diffusion-Grid Current		Icd	—	—	—	mA
Luminance	Rd = k Ω E _{RD} = Vdc R _{RD} = k Ω 	L (G)	350 (102)	700 (204)	(—)	cd/m ² (fL)
		L ()	()	()	(—)	cd/m ² (fL)
		L ()	()	()	(—)	cd/m ² (fL)
Luminance Ratio between Digits		L max L min	—	—	2	
Grid Cut-Off Voltage	Ef = 3.7 Vac Eb = 3z Vdc Ec = vary	Ecco	(— 4.6)	—	—	Vdc
Anode Cut-Off Voltage	Ef = 3.7 Vac Du = 1/3.75 tp = 80 μ s sc = 32 Vp-p Eb = vary	Ebcso	(— 4.6)	—	—	Vdc