

ELECTRICAL DATA

Absolute Maximus Ratings

Filament Voltage	Ef.....	6.4 p 6.6	VaC
Anode Voltage	ab (Du = 1/11).....	30	Vp-p
Grid Voltage	ec (Du = 1/11).....	30	VP-p

TYPICAL OPERATION

Filament Voltage	Ef.....	6.0	Vac
Anode Voltage	eb.....	25	Vp-p
Grid Voltage	ec.....	25	Vp-p
Duty Cycle	Du.....	1/11	-
Pulse Duration	tp.....	213.6	es
Blanking Duration	tb.....	30.5	es
Grid and Anode Cut-off Voltage	.....	-7.5	Vdc
Brightnese (Green)	L.....	G 700	cd/m2
		(204)	(fL)
		R 70	cd/m2
		(20)	(fL)

ELECTRICAL CHARACTERISTICS

(Test circuit is specified by FEB-1001)

ItesS	Symbol	Condition	Tolerance			Unit
			WIN.	NOM.	MAX.	
Filament Current	If	Ef = 8.=)Vac.	96	107	118	mAp-p
Anode Current	Ib/IG	Ef = 6.0 Vac.	-	16	32	mAp-p
Anode Current	Ib/2G-9G	eb = 25 Vp-p	-	9	18	mAp-p
Anode Current	Ib/10G	ec = 25 Vp-p	-	15	30	mAp-p
Grid Current	ic/1G	Du = 1/11	-	15	30	mAp-p
Grid Current	ic/2G-9G	tp = 219.5 μs	-	9	18	MAp-p
Grid Current	ic/10G	Ali seg. are lit.	-	14	28	mAp-p
Brightness	L	Green	350 (102)	700 (204)	-	cd/m2 (fL)
		RED	35 (10)	70 (20)	-	cd/m2 (fL)
Brightness Ratio Between Digits	L MIN. / L MAX.		50 m	-	-	%
An ode Cut-off Voltage	Eboo	Ef = 8.0 Vac cc = 25 Vp-p Du = 1/11 Ali Seg. are lit.	-3.0	-	-	Vdc
Grid Cut-off Voltage	Ecco	Ef = 6.0 Vac Eb = 25 Vdc. Ali Seg. are lit.	-7.5	-	-	Vdc

- Note 1: These values are specified when eb and ec are supplied from the center tap of the filament transformer.  
2: In case of the driving condition differs from this specification, inform NEC in advance.

Typical Operation

Filament Voltage	ef.....	6.0	Vac
Anode Voltage	eb.....	25	Vp-p
Grid Voltage	ec.....	25	Vp-p
Duty Cycle	Du.....	1/11	-
Pulse Duration	tp.....	213.6	μs
Blanking Duration	tb.....	30.5	μs
Grid and Anode Cut-off Voltage	.....	-7.5	Vdc
Brightness (Green)	L.....	G 700	cd/,m²
		(204)	(fL)
		R 70	cd/m²
		(20)	(fL)

Type Number: FIP8XM8

Features (1)  
(2)

Application

Operation Mode

The FIP8XM8 is designed for a sultiplex drive mode.

Mechanical Data

External Dimensions		
Lenght .....	20.0 ± 1.0	mm
Width.....	152.0 ± 1.0	mm
Thickness.....	7.5 ± 0,7	mm
Terminal.....	SIL	
Terminal Connection .....	See Table 1	
Number of Terminal.....	69	
Terminal Pitch.....	2.0	mm
Font Patter .....	See Fig. 1	
Font Height .....	8.u	mm
Font Width .....	125.0	mm
Operating Temperature Range.....	-10 to + 60	°C
Storage Temperature Range .....	-40 to + 70	°C
Nounting Position.....	Any	

OPTICAL DATA

Color .....	Green (505ns)	RED (840 ns)	
Luminance .....	700 cd/m2 (TYP.)	70	cd/m2 (TYP.)
	(204 fL)	(20	fL)

SECRET