

# engineering data service

# **8YP4**

#### CHARACTERISTICS

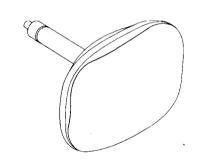
GENERAL DATA												
Focusing Method			S	elf	Fo	cus	ing (	(Ele	ectr	ostatic)		
Deflecting Method								` .	$\mathbf{N}$	<b>l</b> agnetic		
Deflection Angles (approx.)												
Vertical										87	Degrees	
Horizontal												
Diagonal											Degrees	
										P4		
Fluorescence		•								White		
Persistence												
Faceplate	•	•			•	•	Gra	y F	ilte	er Glass	_	
Light Transmittance (a)	ppro	ox.)	•	•	•	•	•	•	•	80	Percent	
ELECTRICAL DATA												
Heater Voltage	_									6.3	Volts	
Heater Voltage Heater Current (approx.)	•	•	•	•	•	•	. •	•	•	0.5	Ampere	
Direct Interelectrode Capacit	anc	es (a	bbr	ox.	`	•	•	•	•	0.0	impere	
Cathode to All Other El	lecti	odes								4	nuf	
Grid No. 1 to All Other	r E	lectro	des				· ·		·	6	uuf	
						•	•	·	•	Ŭ	μμ.	
MECHANICAL DATA												
Minimum Useful Screen Din	nens	sions							71/	$\frac{1}{2} \times 57/_{8}$	Inches	
Bulb Contact (Recessed Sma	ш	Lavity	<sup>r</sup> Ca	ıp)						J1-21		
Base												
Basing										7FG		
Weight (approx.)					٠					2	Pounds	
	1	RAT	'IN	ദ്ര	2							
MAXIMUM RATINGS (AI							V.	1,,,	· c )			
•									•			
Anode Voltage Grid No. 2 (and Grid No.	•	•								22,000	Volts	dc
Grid No. 2 (and Grid No. Grid No. 1 Voltage	4)	Vol	tage	•	٠	•	•	•	•	550	Volts	dc
Negative Bias Value .										155	Volts	dc
Negative Peak Value										220	Volts	
Positive Bias Value . Positive Peak Value .										0	Volts	dc
Positive Peak Value .										2	Volts	
Peak Heater-Cathode Voltage	e											
Heater Negative with R	espe	ect to	Ca	tho	de							
During Warm-up I	Perio	od no	ot to	E	cee	d 1	l5 S€	COL	nds			
After Equipment V										200	Volts	
Heater Positive with Re	espe	ct to	Cat	tho	de	•	•			200	Volts	
TYPICAL OPERATING CO	ON	DIT	CIO	N.	S							
Anode Voltage										16 000	17.old-	ـ ز
Anode Voltage Grid No. 2 (and Grid No. 4	(\ \	Zolta	ne	•	٠	•	٠	•	٠	200	Volta	dc
Grid No. 1 Voltage Require	d f	or C	ge utofl	[1		•		•	35	to -72	Volts	dc dc
CIRCUIT VALUES												
Grid No. 1 Circuit Resistance										1.5	Megohms	Max

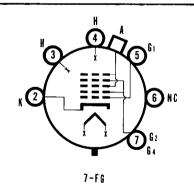
## NOTE:

1. Visual extinction of raster.

## QUICK REFERENCE DATA

Receiver Check Tube 8" Rectangular, All Glass Self Focusing (Electrostatic) No Ion Trap 110° Magnetic Deflection Gray Filter Glass





# SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION

SENECA FALLS, NEW YORK

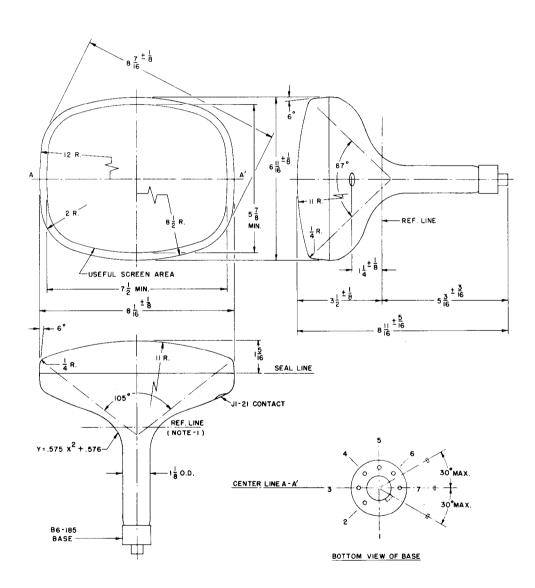
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#### **WARNING:**

X-ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.



### **DIAGRAM NOTES:**

- 1. Reference line is determined by the plane C-C' of JETEC No. 126 reference line gauge when the gauge is seated against the bulb.
- 2. Base Pin No. 7 aligns with horizontal centerline within 30° and is on same side as anode contact (J1-21).
- 3. Dimensions are in inches.