

engineering data service

SYLVANIA 17CVP4

ADVANCE DATA

CHARACTERISTICS

GENERAL DATA

Focusing Method Deflection Method Deflection Angles (approx.)	Electrostatic Magnetic	
Horizontal	105	Degrees
Diagonal	iio	Degrees
Vertical	87	Degrees
Phosphor	Aluminized P4	_
Fluore scence	White	
Persistence	Short to Medium	
Faceplate	Gray Filter Glass	
Light Transmittance (approx.)	77	Percent

ELECTRICAL DATA

Heater Voltage Heater Current Heater Warm-up Time 1 Direct Interelectrode Capacitances (approx.	6.3 0.30 ±5% 11	Volts Ampere Seconds	i
Cathode to All Other Electrodes Grid No. 1 to All Other Electrodes External Conductive Coating to Anode 2	5	ከተደ ከተዴ ከተሚ ከተሚ	Max. Min.

MECHANICAL DATA

Minimum Useful Screen Dimensions	
(Maximum Assured) $14 3/4 \times 11 11/16$	Inches
	Sq. Inches
Bilb J132 1/2-A or J132 1/2-B	
Bulb Contact (Recessed Small Cavity Cap) J1-21	
Base B7-183	
Basing 8HR	
Weight (approx.)	Pounds

RATINGS

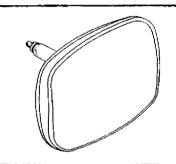
MAXIMUM RATINGS (Absolute Maximum Values)

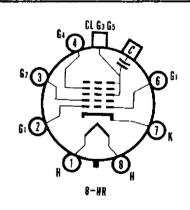
Anode Voltage	17,600	Volts	dc
Grid No. 4 Voltage	****		
(Focusing Electrode)	-550 to +1100	Volts	dc
Grid No. 2 Voltage	550	Volts	d¢
Grid No. 1 Voltage			
Negative Bias Value	154	Volts	dc
Negative Peak Value	220	Volts	
Positive Bias Value	0	Volts	dc
Positive Peak Value	2	Volts	

from JETEC release #2161, April 14, 1958

QUICK REFERENCE DATA

Television Picture Tube
17" Direct Viewed
Rectangular Glass Type
Lightweight Tube
Spherical Faceplate
Gray Filter Glass
Aluminized Screen
Electrostatic Focus
110° Magnetic Deflection
1 1/8" Neck Diameter
No Ion Trap
External Conductive Coating
6.3 Volt, 300 Ma Heater





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION SENECA FALLS, NEW YORK

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MAXIMUM RATINGS (Absolute Maximum Values) (Contid.)

Peak Heater-Cathode Voltage
Heater Negative with Respect to Cathode

During Warm-up Period not to Exceed 15 Seconds

After Equipment Warm-up Period

Heater Positive with Respect to Cathode

450 Volts

200 Volts

TYPICAL OPERATING CONDITIONS

Anode Voltage	14,000	${\tt Volts}$	dc
Grid No. 4 Voltage for Focus	0 to 400	Volts	đc
Grid No. 2 Voltage	300	Volts	dc
Grid No. 1 Voltage Required for Cutoff 3	-35 to -72	Volts	dc

CIRCUIT VALUES

Grid No. 1 Circuit Resistance

1.5 Megohms Max.

NOTES:

- 1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.
- 2. External conductive coating must be grounded.
- 3. Visual extinction of focused raster. Extinction of stationary focused spot will require that these values be about 5 volts more negative.

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.

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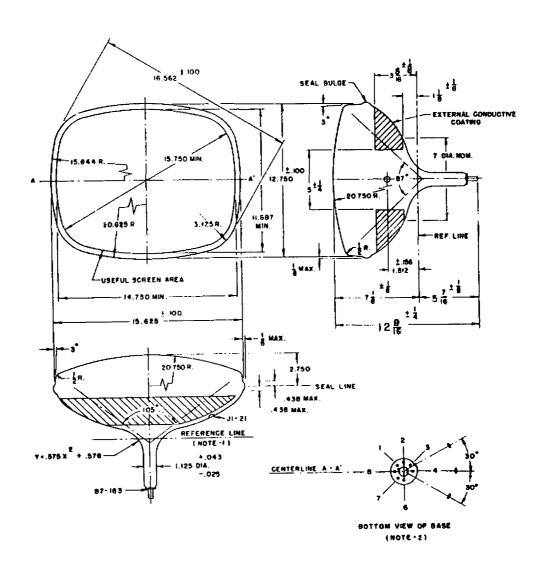


DIAGRAM NOTES:

- 1. Reference line is determined by plane C-C1 of JETEC No. 126 Reference Line Gauge, when the gauge is seated against the bulb.
- 2. Base pin No. 4 aligns with anode contact (J1-21) within 10°.
- 3. Dimensions are in inches.