

engineering data service

CHARACTERISTICS

GENERAL DATA

Focusing Method Electrostatic Deflection Method Magnetic
Deflection Method
Deflection Angles (approx.)
Horizontal
Diagonal
Diagonal
Phosphor
Fluorescence White
Persistence Short to Medium
Faceplate Gray Filter Glass
Light Transmittance (approx.)

ELECTRICAL DATA

Heater Voltage				6.3 Volts	
Heater Current		0.6	Ŧ	5% Ampere	
Heater Warm-up Time ¹				11 Seconds	
Direct Interelectrode Capacitances (approx.)				_	
Cathode to All Other Electrodes					
Grid No. 1 to All Other Electrodes		•		6 µµf	
External Conductive Coating to Anode ²				1500 µµf	Max.
Ũ			:	1000 µµf	Min.

MECHANICAL DATA

Minimum Useful Screen Dimensions
(Maximum Assured) $14\frac{3}{4} \times 11\frac{11}{16}$ Inches
Minimum Useful Screen Area
Bulb J132 1/2A1
Bulb Contact (Recessed Small Cavity Cap)
Base
Basing
Weight (approx.) 10 Pounds

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode Voltage	7,600 Volts 1100 Volts	dc dc
Grid No. 2 Voltage		dc
Grid No. 1 Voltage		
Negative Bias Value	154 Volts	dc
Negative Peak Value	220 Volts	
Positive Bias Value	0 Volts	dc
	2 Volts	
Peak Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
During Warm-up Period not to Exceed 15 Seconds	450 Volts	
After Equipment Warm-up Period	200 Volts	
Heater Positive with Respect to Cathode	200 Volts	

TYPICAL OPERATING CONDITIONS

Anode Voltage			•	14,000 Volts	dc
Grid No. 4 Voltage for Focus				–50 to +350 Volts	dc
Grid No. 2 Voltage				300 Volts	dc
Grid No. 1 Voltage Required for Cutoff ³	•	•	•	. –35 to –72 Volts	dc

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 11/8" Neck Diameter No Ion Trap External Conductive Coating





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION

SENECA FALLS, NEW YORK

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> JUNE, 1957 PAGE 1 OF 3

SYLVANIA

17BWP4

PAGE 2

CIRCUIT VALUES

Grid No. 1 Circuit Resistance	: .																1.5 Megohms Max.
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NOTES:

- 1. Heater warm-up time is the time required for the voltage across the heater terminals to increase to 5.0 volts in the JETEC test circuit, with E = 25 volts and series R = 31.5 obms.
- 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.

SYLVANIA

17BWP4

PAGE 3



DIAGRAM NOTES:

- 1. Reference line is determined by 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 anode contact (J1-21) within 30°.
- 3. Dimensions are in inches.

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.