



## ADVANCE DATA CHARACTERISTICS

### GENERAL DATA

|                               |                   |
|-------------------------------|-------------------|
| Focusing Method               | Electrostatic     |
| Deflection Method             | Magnetic          |
| Deflection Angles (approx.)   |                   |
| Horizontal                    | 105 Degrees       |
| Diagonal                      | 110 Degrees       |
| Vertical                      | 87 Degrees        |
| Phosphor                      | Aluminized P4     |
| Fluorescence                  | White             |
| Persistence                   | Short to Medium   |
| Faceplate                     | Gray Filter Glass |
| Light Transmittance (approx.) | 77 Percent        |

### ELECTRICAL DATA

|                                                   |                      |      |
|---------------------------------------------------|----------------------|------|
| Heater Voltage                                    | 6.3 Volts            |      |
| Heater Current                                    | $0.6 \pm 5\%$ Ampere |      |
| Heater Warm-up Time <sup>1</sup>                  | 11 Seconds           |      |
| Direct Interelectrode Capacitances (approx.)      |                      |      |
| Cathode to All Other Electrodes                   | 5 $\mu$ f            |      |
| Grid No. 1 to All Other Electrodes                | 6 $\mu$ f            |      |
| External Conductive Coating to Anode <sup>2</sup> | 1400 $\mu$ f         | Max. |
|                                                   | 900 $\mu$ f          | Min. |

### MECHANICAL DATA

|                                                       |                                                |
|-------------------------------------------------------|------------------------------------------------|
| Minimum Useful Screen Dimensions<br>(Maximum Assured) | $14\frac{3}{4} \times 11\frac{1}{16}$ Inches   |
| Minimum Useful Screen Area                            | 155 Sq. Inches                                 |
| Bulb                                                  | J132 $\frac{1}{2}$ A1 or J132 $\frac{1}{2}$ B1 |
| Bulb Contact (Recessed Small Cavity Cap)              | J1-21                                          |
| Base                                                  | B6-185                                         |
| Basing                                                | 7FA                                            |
| Weight (approx.)                                      | 10 Pounds                                      |

## RATINGS

### MAXIMUM RATINGS (Absolute Maximum Values)

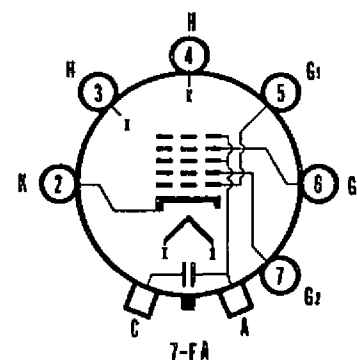
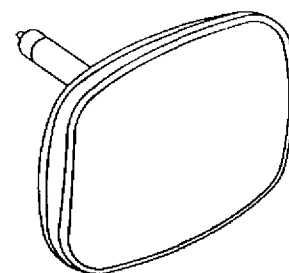
|                                                |                     |    |
|------------------------------------------------|---------------------|----|
| Anode Voltage                                  | 17,600 Volts        | dc |
| Grid No. 4 Voltage (Focusing Electrode)        | -550 to +1100 Volts | dc |
| Grid No. 2 Voltage                             | 550 Volts           | dc |
| 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             |    |
| 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 <sup>3</sup> | -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  
 1 $\frac{1}{8}$ " Neck Diameter  
 No Ion Trap  
 External Conductive Coating



**SYLVANIA ELECTRIC  
PRODUCTS INC.**

**TELEVISION PICTURE TUBE  
DIVISION**

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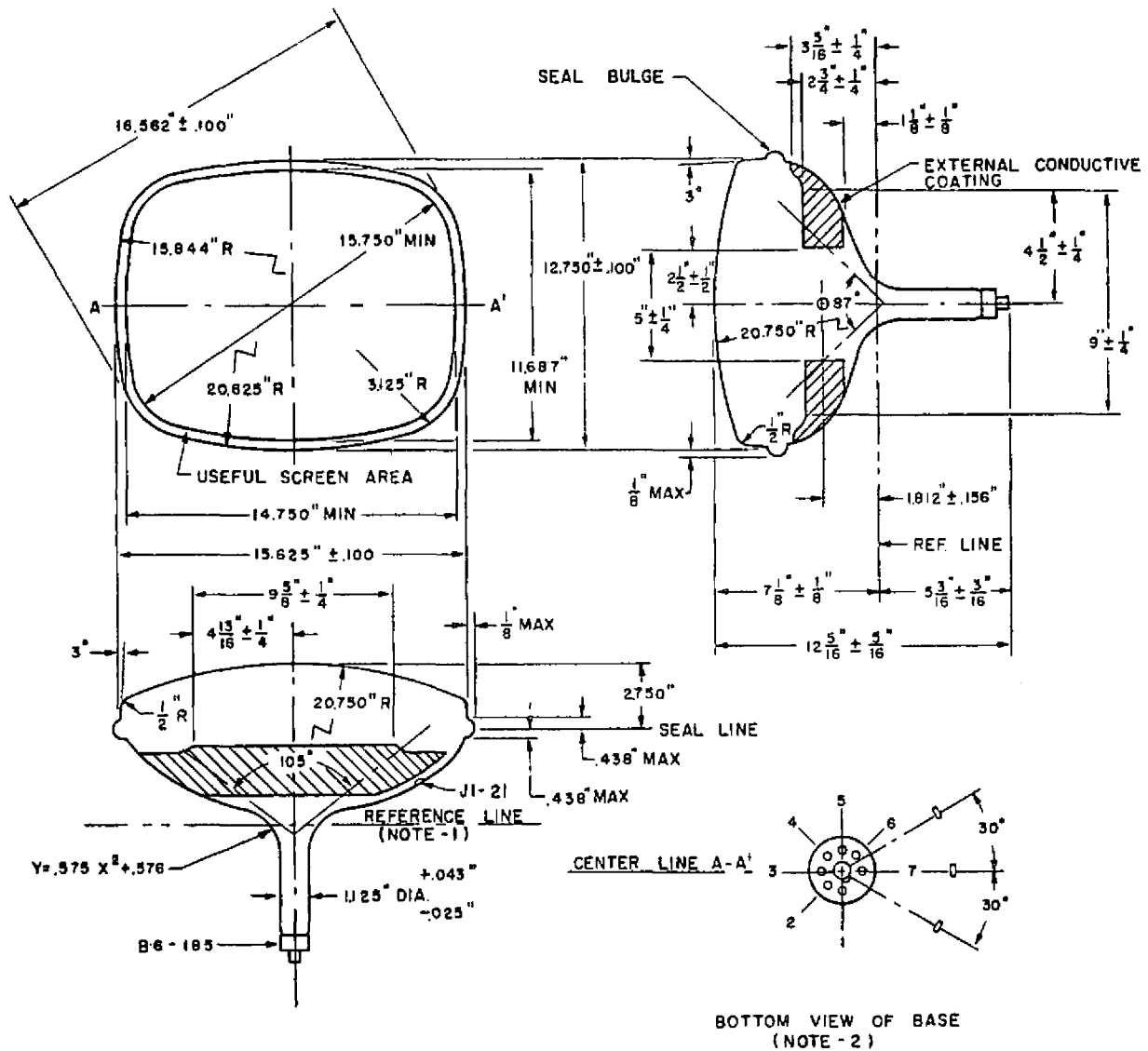
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**CIRCUIT VALUES**

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

**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  $R = 31.5$  ohms.*
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.*



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**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°.

**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.