

## CHARACTERISTICS

### GENERAL DATA

|                                      |            |
|--------------------------------------|------------|
| Focusing Method . . . . .            | Magnetic   |
| Deflecting Method . . . . .          | Magnetic   |
| Deflection Angle (approx.) . . . . . | 50 Degrees |
| Phosphor . . . . .                   | P7         |
| Fluorescence . . . . .               | Blue-White |
| Phosphorescence . . . . .            | Yellow     |
| Persistence . . . . .                | Long       |

### ELECTRICAL DATA

|                                              |                  |
|----------------------------------------------|------------------|
| Heater Voltage . . . . .                     | 6.3 Volts        |
| Heater Current (approx.) . . . . .           | 0.6 Ampere       |
| Direct Interelectrode Capacitances (approx.) |                  |
| Cathode to All Other Electrodes . . . . .    | 5 $\mu\text{mf}$ |
| Grid No. 1 to All Other Electrodes . . . . . | 6 $\mu\text{mf}$ |

### MECHANICAL DATA

|                                                                 |                  |
|-----------------------------------------------------------------|------------------|
| Minimum Useful Screen Diameter . . . . .                        | 9 Inches         |
| Bulb Contact (Recessed Small Cavity Cap) . . . . .              | J1-21            |
| Base (Small Shell Duodecal 5-Pin) . . . . .                     | B5-57            |
| Basing . . . . .                                                | 12D              |
| Bulb Contact Aligns with Vacant<br>Pin Position No. 3 . . . . . | $\pm 10$ Degrees |

## RATINGS

### MAXIMUM RATINGS (Design Center Values)

|                                                   |                  |
|---------------------------------------------------|------------------|
| Anode Voltage . . . . .                           | 10,000 Volts d c |
| Grid No. 2 Voltage . . . . .                      | 700 Volts d c    |
| Grid No. 1 Voltage                                |                  |
| Negative Bias Value . . . . .                     | 180 Volts d c    |
| Positive Bias Value . . . . .                     | 0 Volts d c      |
| Positive Peak Value . . . . .                     | 2 Volts          |
| Peak Heater-Cathode Voltage                       |                  |
| Heater Negative with Respect to Cathode           |                  |
| During Warm-up Period Not to Exceed               |                  |
| 15 Seconds . . . . .                              | 410 Volts        |
| After Warm-up Period . . . . .                    | 150 Volts        |
| Heater Positive with Respect to Cathode . . . . . | 150 Volts        |

### RECOMMENDED OPERATING CONDITIONS

|                                                               |                      |
|---------------------------------------------------------------|----------------------|
| Anode Voltage . . . . .                                       | 9,000 Volts d c      |
| Grid No. 2 Voltage . . . . .                                  | 250 Volts d c        |
| Grid No. 1 Voltage Required for Cutoff <sup>1</sup> . . . . . | -27 to -63 Volts d c |
| Focusing Coil Current (approx.) <sup>2</sup> . . . . .        | 105 Ma d c           |

### CIRCUIT VALUES

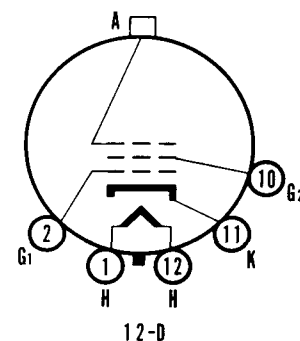
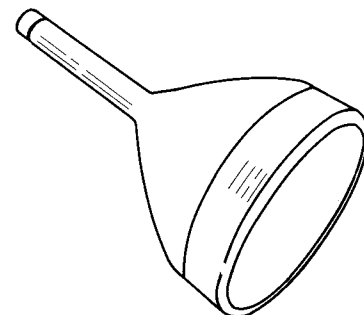
|                                         |                  |
|-----------------------------------------|------------------|
| Grid No. 1 Circuit Resistance . . . . . | 1.5 Megohms Max. |
|-----------------------------------------|------------------|

### NOTES:

1. Visual extinction of undeflected focused spot.
2. For JETEC focusing coil 106 or equivalent, center three and one quarter inches from reference line.

## QUICK REFERENCE DATA

Special Purpose Tube  
10" Direct Viewed  
Round Glass Type  
Magnetic Deflection  
Magnetic Focus



SYLVANIA ELECTRIC  
PRODUCTS INC.

TELEVISION PICTURE TUBE  
DIVISION  
SENECA FALLS, NEW YORK

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1. Reference line is determined by JETEC No. 112 reference line gauge.

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.