

# engineering data service

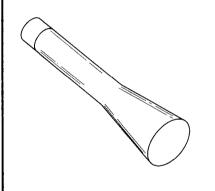
3AP1A 3AP-A\*

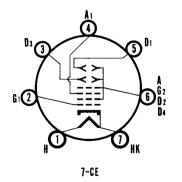
### **CHARACTERISTICS**

| CIMMOTEMOTICS   |                  |
|---|------------------|
| GENERAL DATA  |                  |
| Focusing Method Electrostatic  Deflecting Method Electrostatic  Phosphor          |                  |
| Faceplate   |                  |
| *In addition to the type shown, the 3AP-A* can be supplied with screen phosphors. | 's several other |
| ELECTRICAL DATA   |                  |
| Heater Voltage 2.5  | Volts            |
| Heater Current (Approx.)  | Ampere           |
|   | μμf<br>μμf       |
|   | μμf              |
| MECHANICAL DATA   | μμ-              |
| · -   |                  |
| RATINGS   |                  |
| MAXIMUM RATINGS (Absolute Maximum Values)   |                  |
| Anode No. 2 Voltage   | Volts dc         |
| e   | Volts dc         |
| Grid No. 1 Voltage  Negative Bias Value   | Volts dc         |
| <u> </u>  | Volts dc         |
| Peak Voltage Between Anode No. 2 and  | VOIES GC         |
| <u> </u>  | Volts            |
| TYPICAL OPERATING CONDITIONS  |                  |
| Anode No. 2 Voltage <sup>2</sup>  | Volts dc         |
| Anode No. 1 Voltage   |                  |
| Grid No. 1 Voltage Required for Cutoff <sup>3</sup> 25 to -75                     |                  |
| Deflection Factor <sup>4,5</sup>  |                  |
| Deflecting Plates 1-26 90 to 137  | Volts dc/Inch    |
| Deflecting Plates 3-4 <sup>7</sup>  |                  |
|   | ·                |
| CIRCUIT VALUES  | ·                |
|   | ·                |

### QUICK REFERENCE DATA

3" Direct Viewed Round Glass Type Electrostatic Deflection Electrostatic Focus





## SYLVANIA ELECTRONIC TUBES

A Division of
Sylvania Electric Products Inc.
PICTURE TUBE OPERATIONS
SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

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### **NOTES:**

- 1. With D2 positive with respect to D1, the spot is deflected toward Pin No. 1. With D4 positive with respect to D3, the spot is deflected toward Pin No. 6.
- 2. Brilliance and definition decrease with decreasing Anode No. 2 Voltage. In general, Anode No. 2 Voltage should not be less than 1,000 Volts.
- 3. Visual extinction of undeflected focused spot.
- 4. The plane through the tube axis and Pin 6 may vary from the trace produced by Deflecting Plates 3-4 by an angular tolerance measured about the tube axis; of 10 degrees.
- 5. Angle between D1-D2 trace and D3-D4 trace is 90° ± 3°.
- 6. Deflecting Plates 1-2 are nearer the screen.
- 7. Deflecting Plates 3-4 are nearer the base.

#### 3AP1

Sylvania Type 3AP1A replaces Type 3AP1.

