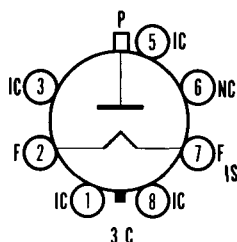


# **SYLVANIA TYPE 1N2A** **HV HALF-WAVE RECTIFIER**



## **MECHANICAL DATA**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Bulb.....                 | T-12                                    |
| Base <sup>1</sup> .....   | B7-227, Short Medium Shell Octal, 7-Pin |
| Cap.....                  | C1-34                                   |
| Outline.....              | See Drawing                             |
| Basing <sup>1</sup> ..... | 3C                                      |
| Cathode.....              | Coated Filament                         |
| Mounting Position.....    | Any                                     |

## **ELECTRICAL DATA**

### **FILAMENT CHARACTERISTICS AND RATINGS**

| Average Characteristics             | Parallel Operation |
|-------------------------------------|--------------------|
| Filament Voltage <sup>2</sup> ..... | 1.25 Volts         |
| Filament Current.....               | 200 Ma             |
| Ratings (Design Maximum Values)     | Min.-Max.          |
| Filament Voltage <sup>3</sup> ..... | 1.05-1.45 Volts    |

### **DIRECT INTERELECTRODE CAPACITANCE**

|                                            |             |
|--------------------------------------------|-------------|
| Plate to Filament and Internal Shield..... | 1.4 $\mu$ f |
|--------------------------------------------|-------------|

### **RATINGS (Design Maximum System)**

| Flyback Voltage Rectifier <sup>4</sup> |                   |
|----------------------------------------|-------------------|
| Inverse Plate Voltage                  |                   |
| Total D C and Peak.....                | 28,000 Volts Max. |
| D C.....                               | 24,000 Volts Max. |
| Peak Plate Current.....                | 50 Ma Max.        |
| Average Plate Current.....             | 0.5 Ma Max.       |

### **CHARACTERISTICS**

|                                           |           |
|-------------------------------------------|-----------|
| Tube Drop for $I_b = 7$ Ma (approx.)..... | 100 Volts |
|-------------------------------------------|-----------|

### **NOTES:**

1. Socket terminals 1, 3, 4, 5, 6 and 8 may be connected to terminal 7 or to a corona shield which connects to terminal 7. Terminals 4 and 6 may be used as tie points at or near filament potential.
2. The equipment shall be designed that the filament voltage is centered at the specified bogey value.
3. Filament supply variations shall be restricted to maintain filament voltage within the specified values.
4. For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15 per cent of one scanning cycle.

## **APPLICATION**

The Sylvania Type 1N2A is a filamentary half-wave diode intended for service as the high voltage rectifier in television receivers and other high voltage rectifier applications.

# SYLVANIA TYPE 1N2A (Cont'd)

## AVERAGE PLATE CHARACTERISTICS

