SYLVANIA TYPE 1N2A
HV HALF-WAVE RECTIFIER

MECHANICAL DATA

Bulb .................................................. B7-227, Short Medium Shell Octal, 7-Pin
Base† .................................................... T-12
Cap ...................................................... C1-34
Outline .................................................. See Drawing
Bearing† .................................................. 3C
Cathode .................................................. Coated Filament
Mounting Position .................................... Any

ELECTRICAL DATA

FILAMENT CHARACTERISTICS AND RATINGS

Average Characteristics
Filament Voltage† ..................................... 1.25 Volts
Filament Current ..................................... 200 Ma

Ratings (Design Maximum Values)
Filament Voltage† ..................................... 1.05-1.45 Volts

DIRECT INTERELECTRODE CAPACITANCE
Plate to Filament and Internal Shield ............... 1.4 μF

RATINGS (Design Maximum System)
Flyback Voltage Rectifier†
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 1 Ib = 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

CURRENT IN MA

PLATE VOLTAGE

$E_r = \text{RATED VALUE}$

SYLVANIA ELECTRONIC TUBES