SYLVANIA engineering data service

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ADVANCE DATA

MECHANICAL DATA

Bulb	T-12
Base[1]	B7-227, Short Medium Shell Octal, 7-Pin
Cap	C1-34
Outline	12-18
Basing[1]	3C
Cathode	Coated Filament
Mounting Position	Any

ELECTRICAL DATA

FILAMENT CHARACTERISTICS

Filament Voltage	1.25	Volts
Filament Current	200	Ma
Maximum Heater Voltage Range[2]	1.05 - 1.45	Volts

DIRECT INTERELECTRODE CAPACITANCE

Plate to Filament and Internal Shield	1.4	μμf

RATINGS (Design Maximum System)[2]

Flyback Voltage Rectifier[3]

Inverse Plate Voltage			
Total DC and Peak	28,000	Volts	Max.
DC	24,000	Volts	Max.
Peak Plate Current	50	Ma	Max.
Average Plate Current	0.5	Ma	Max.

CHARACTERISTICS

Tube Drop for Ib = 7 Ma (approx.)	100	Volts

NOTES:

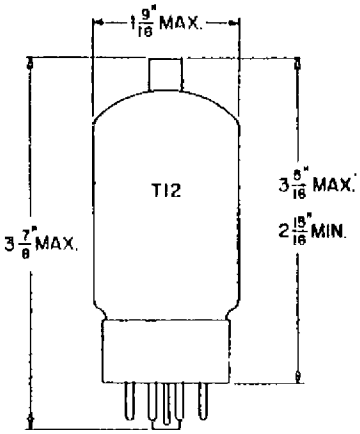
1. Socket terminals 1, 3, 4, 5, 6 and 8 may be connected to terminal 7 or to a corona shield which connects to terminal 7. Terminals 4 and 6 may be used as tie points at or near filament potential.

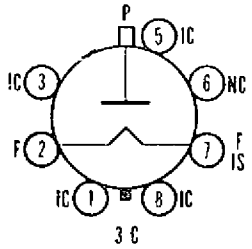
2. Design-Maximum Ratings are limiting values of operating and environmental conditions applicable to a bogey electron device of a specified type as defined by its published data, and should not be exceeded under the worst probable conditions.

   The device manufacturer chooses these values to provide acceptable serviceability of the device, taking responsibility for the effects of changes in operating conditions due to variations in device characteristics.

QUICK REFERENCE DATA

The Sylvania Type 1N2 is a filamentary half-wave diode intended for service as the high voltage rectifier in television receivers and other high voltage rectifier applications.





SYLVANIA ELECTRONIC TUBES
A Division of
SYLVANIA ELECTRIC PRODUCTS, Inc.
RECEIVING TUBE
OPERATIONS
EMPORIUM, PENNSYLVANIA

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NOTES: (Continued)

2. The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a bogey device under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, and environmental conditions.

3. 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.

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 Plate Voltage or 16,000 volts, whichever is less.