



ADVANCE DATA

DESCRIPTION

The NOVAR design features nine widely spaced, heavy gauge pins bonded to a T-9 (1 1/8" diameter) bulb.

The NOVAR construction when compared with 9 pin T-6½ (13/16 diameter) bulbs provides the following: increased heat dissipation and exceptionally firm seating of the base in its socket.

MECHANICAL DATA

Bulb	T-9
Base	E9-75, Small Button NOVAR 9-Pin
Outline	9-85
Basing ¹	9HP
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS AND RATINGS

Average Characteristics

Heater Operation	Parallel
Heater Voltage	6.3 ² Volts
Heater Current	1200 Ma

Ratings (Design Maximum Values)

	Min-Max
Heater Voltage ³	5.7-6.9 Volts
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode DC	900 Volts
Total DC and Peak	5000 Volts
Heater Positive with Respect to Cathode DC	100 Volts
Total DC and Peak	300 Volts

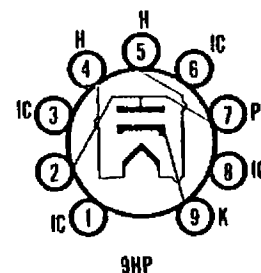
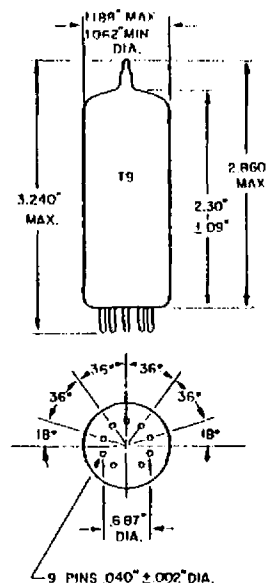
DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Heater to Cathode	2.8 μf
Plate to Cathode and Heater	6.5 μf
Cathode to Plate and Heater	9.0 μf

QUICK REFERENCE DATA

The Sylvania Type 6AY3A features a NOVAR T-9 construction. It is an indirectly heated halfwave rectifier designed for service as a damping diode in direct drive sweep circuits in television receivers.

Type 6AY3A is a shorter bulb version of the Type 6AY3 contained in EIA Release No. 3320.

SYLVANIA
ELECTRONIC TUBES

A Division of
Sylvania Electric Products Inc.

RECEIVING TUBE
OPERATIONS
EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

January 16, 1962
Page 1 of 2

SYLVANIA

6AY3A

Page 2

RATINGS (Design Maximum System)

Damper Service

Peak Inverse Plate Voltage ⁴	5000	Volts	Max.
Plate Dissipation	6.5	Watts	Max.
Steady State Peak Current	1100	Ma	Max.
DC Plate Current	175	Ma	Max.

NOTES:

1. Pins 1, 3, 6, and 8 should not be used as tie points.
2. For parallel operation of heaters, equipment should be designed that at normal supply voltage bogey tubes will operate at this value of heater voltage.
3. Heater voltage supply variations shall be restricted to maintain heater 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 Broadcasting Stations; Federal Communications Commission." The duty cycle of the voltage pulse not to exceed 15% of a scanning cycle.