

SYLVANIA ELECTRIC

RTMA Registration Data

TYPE 6BA5

PENTODE VOLTAGE AMPLIFIER

MECHANICAL DATA

Style.....subminiature
 Cathode.....coated, unipotential
 Bulb.....T-3
 Base.....K8-1⁽¹⁾, Subminiature Button--Flexible Leads
 Outline.....3-1
 Maximum Bulb Diameter.....0.400 inch
 Maximum Overall Bulb Length.....1.375 inches
 Minimum Lead Length.....1.500 inches
 Mounting position.....any
 Basing.....8DY

Lead Connections:

Lead 1 .. grid #1	Lead 5 .. plate
Lead 2 .. no connection	Lead 6 .. heater
Lead 3 .. heater	Lead 7 .. grid #2
Lead 4 .. no connection	Lead 8 .. cathode and grid #3

ELECTRICAL DATA

GENERAL

Direct Interelectrode Capacitances:

	<u>Shielded⁽²⁾</u>	<u>Not Shielded</u>
Grid #1 to Plate.....	.065	0.1 μ f
Input.....	3.4	3.2 μ f
Output.....	3.6	1.6 μ f

Heater Voltage.....	6.3 volts
Heater Current.....	150 milliamps

RATINGS -- Design Center Valves

Heater Voltage (ac or dc).....	6.3 (\pm 10%) volts
Maximum Plate Voltage.....	150 volts
Maximum Grid #2 Voltage.....	140 volts
Maximum Plate Dissipation.....	0.7 watt
Maximum Grid #2 Dissipation.....	0.3 watt
Maximum Heater to Cathode Voltage.....	90 volts
Maximum Grid #1 Circuit Resistance (self bias).....	1 megohm

(1) With 1,500 inches minimum lead length as specified above.

(2) External shield of 0.405 inch diameter connected to cathode.

TYPE 68A5

CHARACTERISTICS

Conditions:

Heater Voltage.....	6.3	volts
Plate Voltage (dc).....	100	volts
Grid #2 Voltage (dc).....	100	volts
Cathode Resistor.....	270	ohms
Plate Current.....	5.5	milliamps
Grid #2 Current.....	2.0	milliamps
Transconductance.....	2,150	μ hos
Plate Resistance.....	175,000	ohms
Grid #1 Bias for 10 μ amps Plate Current..	-13.5	volts