

MECHANICAL DATA

Bulb	T-6 1/2
Base	E9-1, Small Button 9-Pin
Outline	6-2
Basing	9A
Cathode	Unipotential
Mounting Position	Any
Heater	Pure Tungsten

ELECTRICAL DATA

HEATER CHARACTERISTICS

	Series	Parallel
Heater Voltage	12.6	6.3 Volts
Heater Current	150	300 Ma
Heater-Cathode Voltage (Absolute Values)		
Heater Negative with Respect to Cathode		90 Volts Max.
Heater Positive with Respect to Cathode		90 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded—Approx.)

	Unit 1	Unit 2
Grid to Plate	1.5	1.5 μ f
Grid to Cathode and Heater	1.9	1.9 μ f
Plate to Cathode and Heater	0.5	0.35 μ f
Grid of Unit No. 1 to Grid of Unit No. 2	0.1	μ f Max.

RATINGS (Absolute Values)—Each Unit

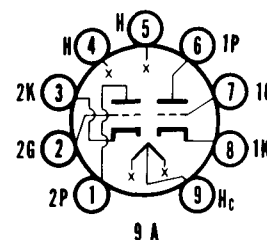
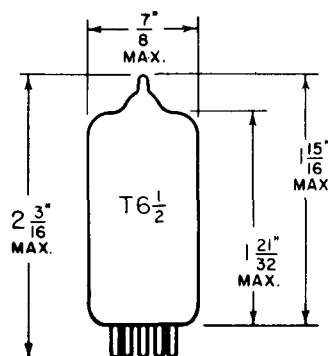
Plate Voltage	250 Volts Max.
Grid Voltage	
Negative Bias Value	100 Volts Max.
Positive Bias Value	0 Volts Max.
Peak Negative Value	200 Volts Max.
Plate Dissipation	2.5 Watts Max.
Grid Input	0.5 Watt Max.
Cathode Current	
Peak	100 Ma Max.
DC	20 Ma Max.
Grid Circuit Resistance	
Fixed Bias	0.5 Megohm Max.
Self Bias	1.0 Megohm Max.
Bulb Temperature (Hottest Point on Bulb Surface)	120° C Max.

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)

Plate Voltage	67.5 Volts
Grid Voltage	0 Volts
Amplification Factor	21
Plate Resistance (approx.)	6600 Ohms
Transconductance	3200 μ hos
Plate Current	8.5 Ma

QUICK REFERENCE DATA

The Sylvania Type 5963 is a miniature, medium-mu twin triode designed for long life computer applications.



SYLVANIA ELECTRIC
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RADIO TUBE DIVISION
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Computer Service

	Cutoff Condition	Zero Bias Condition
Plate Supply Voltage	150	150 Volts
Grid Voltage	-15	0 Volts
Plate Circuit Resistance	20000	20000 Ohms
Grid Circuit Resistance	47000	47000 Ohms
Plate Current	0	5.1 Ma

AVERAGE PLATE CHARACTERISTICS

