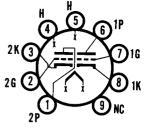


# DUOTRIODE



9LP

## MECHANICAL DATA

Bulb	T-6½
Bulb	, Miniature Button 9-Pin
Outline	
Basing	9LP
Cathode	Coated Unipotential
Mounting Position	Any

# **ELECTRICAL DATA**

### HEATER CHARACTERISTICS AND RATINGS

Ch	ara	cte	rist	ics
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Heater Voltage <sup>1</sup>	6.3 Volts
Heater Current <sup>2</sup>	
Ratings (Design Maximum Values	
Heater Voltage <sup>3</sup>	6.3 ± 0.6 Volts
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to C	athode
Total D C and Peak	200 Volts Max.
Heater Positive with Respect to Ca	thode
D C	
Total D.C. and Peak	200 Volts Max.

# DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

	Section 14	Section 24
Grid to Plate	3.4	3.4 µµf
Input: g to $(h+k)$	3.0	$3.0 \mu \mu f$
Output: p to (h+k)	0.33	0.23 μμf

#### Ratings (Design Maximum Values) Each Section

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Relay Control Service	
Plate Voltage	300 Volts Max.
Plate Dissipation <sup>5</sup>	2.5 Watts Max.
Plate Dissipation <sup>3</sup>	4.5 Watts Max.
Positive Grid Voltage	0 Volts Max.
Cathode Current	20 Ma Max.
Grid Circuit Resistance	3.9 Megohms Max.

#### CHARACTERISTICS AND TYPICAL OPERATION

Class A	1 A	mplifi	ег⊶Еас	h Section
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Plate Voltage	250 Volts
Grid Voltage	−2 Volts
Plate Current	9.2 Ma
Transconductance	5200 μmhos
Amplification Factor	60
Plate Resistance	11,500 Ohms
Ec for $lb = 100 \mu a \dots$	−9 Volts

#### RELAY CONTROL OPERATION (Each Section)

	"ON" Time More Than 30 Sec. in Any 2 Min. Interval	"ON" Time Less Than 30 Sec. in Any 2 Min, Interval
Plate Supply Voltage		250 Volts
Zero Bias Plate Current		18.5 Ma
Plate Lead (Relay)		2500 Ohms
Ec for $lb = 100 \mu a$ (approx.)	. –5	−9 Volts

#### NOTES:

- For parallel operation of heaters, equipment should be designed that at normal supply voltage bogey tubes will operate at this value of heater voltage.
   The bogey value of current is obtained when operating the heater at the specified 6.3 volts.
   Heater voltage supply variations shall be restricted to maintain heater voltage within the specified tolerance.
   Section No. 1 connects to Pies 6. 7, and 8.

- 4. Section No. 1 connects to Pins 6, 7, and 8. Section No. 2 connects to Pins 1, 2 and 3.

# SYLVANIA TYPE 6EV7 (Cont'd)

- 5. Plate dissipation can be as high as 2.5 watts when the "ON" time exceeds 30 seconds in any 2 minute interval.
  6. Plate dissipation can be as high as 4.5 watts when the "ON" time does not exceed 30 seconds in any 2 minute interval.

#### **APPLICATION**

The Sylvania Type 6EV7 is a miniature high-mu twin triode having separate cathodes. It is designed for service as a relay-control tube in remote tuning units of television receivers.