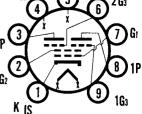


# SYLVANIA TYPES 6GS8<sub>2P</sub>@

4GS8<sup>°</sup>



**DUAL CONTROL PENTODE** 

9LW

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Bulb	T-6 1/2
Base	1 Button 9-Pin
Outline	6-3
Basing	9LW
Cathode Coated	
Mounting Position	Any

## **ELECTRICAL DATA**

#### **HEATER CHARACTERISTICS**

	3G58	4G58	6658	
Heater Voltage	3.15	4.2	6.3	Volts
Heater Current	600	450	300	Ma
Heater Warm-up Time <sup>1</sup>	11	11		Seconds
Maximum Heater Current Range <sup>2</sup>	560-640	420-480		Ма
Maximum Heater Voltage Range <sup>2</sup>			5.7-6.3	Volts
Heater-Cathode Voltage (Design Ma		)2		
Heater Negative with Respect to 6	Cathode	•		
Total D C and Peak	200	200	200	Volts Max.
Heater Positive with Respect to C	athode			
D C	100	100	100	Volts Max.
Total D C and Peak	200	200	200	Volts Max.

#### DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 3 to Plate (Each Section)	2.0 μμf
Grid No. 1 to All	$6.0~\mu\mu f$
Grid No. 3 (Each Section) to All	$3.8 \mu\mu f$
Plate (Each Section) to All	3.2 µµf
Grid No. 3 (Section 1) to Grid No. 3 (Section 2)	$0.015 \mu\mu f$ Max.

#### RATINGS (Design Maximum Values)2

Plate Voltage (Each Section)	300 Volts Max.
Grid No. 2 Voltage	150 Volts Max.
Positive D C Grid No. 3 Voltage (Each Section)	3.0 Volts Max.
Negative D C Grid No. 3 Voltage (Each Section)	50 Volts Max.
Peak Positive Grid No. 3 Voltage (Each Section)	50 Volts Max.
Negative D C Grid No. 1 Voltage	50 Volts Max.
Plate Dissipation (Each Section)	1.1 Watts Max.
Grid No. 2 Dissipation	0.75 Watts Max.
D C Cathode Current	12 Ma Max.
Grid No. 1 Circuit Resistance	0.5 Megohm Max.
Grid No. 3 Circuit Resistance (Each Section)	0.5 Megohm Max.

# CHARACTERISTICS AND TYPICAL OPERATION

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# SYLVANIA TYPES 6GS8 (Cont'd) **4GS8** 3GS8

#### NOTES:

 Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.

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 service-ability of the device, taking responsibility for the effects of changes in operating

conditions due to variations in device characteristics.

The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a begey 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. Grid Current adjusted for 100 µa d c.

### **APPLICATION**

The Sylvania Types 3GS8, 4GS8 and 6GS8 have dual pentodes with separate plates and separate No. 3 Grids contained in one envelope. They are primarily intended for service as a combined sync separator-clipper and AGC tube in television receivers. The 3GS8 and 4GS8 are controlled for heater warm-up time for series string operation.