

ELECTRONIC TUBE REFERENCE

6AM8

Voltage Pentode or Tetrode (with diode) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Miniature diode-pentode designed for combined television video-detector and final-IF amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CY	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9CY - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 1K	A	K – Cathode	CONNECTED
PIN2 – 1G1	A	G1 – Control Grid	CONNECTED
PIN3 – 1G2	A	G2 – Screen Grid	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 2K	B	K – Cathode	CONNECTED
PIN8 – 2P	B	P – Plate (Anode)	CONNECTED
PIN9 – 1G3	A	G3 – Suppressor Grid	CONNECTED

SECTION RATINGS

SECTION1 Diode	
MAXIMUM CATHODE CURRENT	5 mA
<i>Published maximum ratings, representative operating characteristics, and capacitance columns reviewed.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	600000 Ω
TRANSCONDUCTANCE	0.007 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	3.2 W
MAXIMUM SCREEN DISSIPATION	0.55 W
<i>Published maximum ratings, representative operating characteristics, and capacitance columns reviewed.</i>	

Miniature diode-pentode for combined video-detector and final-IF service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 1 · Diode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode plate voltage at 50 mA	10 V	—

1950 SYLVANIA

Section 2 · Pentode

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	Final IF amplifier	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Pentode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published handbook rating
Maximum screen voltage	150 V	Published handbook rating
Plate voltage	200 V	ClassA
Screen voltage	150 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	11.5 mA	ClassA
Screen current	2.7 mA	ClassA
Diode DC output current	5 mA	VideoDetector

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	600000 ohm	Published handbook characteristic
Transconductance	7000 μ S	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	450 mA	Published heater rating
Diode voltage drop	10 V	At 50 mA DC

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	6 pF	Published capacitance column
Output capacitance	3.4 pF	Published capacitance column
Grid-to-plate capacitance	0.015 pF	Published capacitance column