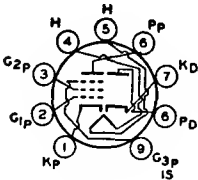


Refer to chart at end of section.

6AM8



9CY

DIODE—
SHARP-CUTOFF PENTODE

6AM8A

5AM8

Miniature type used in television receiver applications. The pentode unit is used as an if amplifier, video amplifier, or agc amplifier. The high-perveance diode is used as an audio detector, video detector, or dc restorer. Outlines section, 6B; requires miniature 9-contact socket. Type 5AM8 is identical with type 6AM8A except for heater ratings.

	5AM8	6AM8A	
Heater Voltage (ac/dc)	4.7	6.3	volts
Heater Current	0.6	0.45	ampere
Heater Warm-up Time (Average)	100 max	100 max	volts
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts

Direct Interelectrode Capacitances:

Diode Unit:		
Plate to Cathode and Heater	1.8	pF
Cathode to Plate and Heater	3	pF
Pentode Unit:		
Grid No.1 to Plate	0.015	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3 and Internal Shield	6.5	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	2.6	pF
Pentode Grid No.1 to Diode Plate	0.006	pF
Pentode Plate to Diode Cathode	0.15	pF
Pentode Plate to Diode Plate	0.1	pF

Pentode Unit as Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0	volts
Grid-No.2 (Screen-Grid) Supply Voltage	330	volts
Grid-No.2 Voltage	See curve page 300	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	volts
Plate Dissipation	3.2	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 165 volts	0.55	watt
For grid-No.2 voltages between 165 and 330 volts	See curve page 300	

CHARACTERISTICS

Plate Supply Voltage	125	volts
Grid No.3	Connected to cathode at socket	
Grid-No.2 Supply Voltage	125	volts
Cathode-Bias Resistor	56	ohms
Plate Resistance (Approx.)	0.3	megohm
Transconductance	7800	μmhos
Plate Current	12.5	mA
Grid-No.2 Current	3.2	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	—6	volts
Grid-No.1 Voltage (Approx.) for plate current of 2 mA	—3	volts

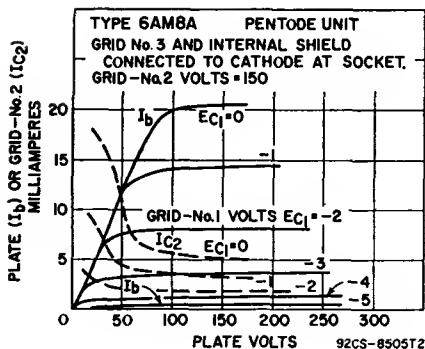
MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.25	megohm
For cathode-bias operation	1	megohm

Diode Unit

MAXIMUM RATING (Design-Maximum Value)

Average Plate Current	5	mA
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**6AN4**

Refer to chart at end of section.

6AN5

Refer to chart at end of section.

6AN8

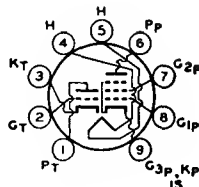
Refer to chart at end of section.

6AN8A

5AN8

**MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE**

Miniature type used in color television receiver applications. The pentode unit is used as an intermediate-frequency amplifier, a video amplifier, an agc amplifier, or a reactance tube. The triode unit is used in low-frequency oscillator, sync-separator, sync-clipper, and phase-splitter circuits. Outlines section, 6B; requires miniature 9-contact socket. Type 5AN8 is identical with 6AN8A except for heater ratings.

**9DA**

	5AN8	6AN8A	
Heater Voltage (ac/dc)	4.7	6.3	volts
Heater Current	0.6	0.45	ampere
Heater Warm-up Time (Average)	11	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances:			
Triode Unit:			
Grid to Plate		1.5	pF
Grid to Cathode and Heater		2	pF
Plate to Cathode and Heater		0.26	pF
Pentode Unit:			
Grid No.1 to Plate		0.04 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		7	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		2.4	pF
Triode Grid to Pentode Plate		0.02	pF
Pentode Grid No.1 to Triode Plate		0.02	pF
Pentode Plate to Triode Plate		0.15	pF

Class A₁ Amplifier**MAXIMUM RATINGS (Design-Maximum Values)**

	Triode Unit	Pentode Unit	
Plate Voltage	330	330	volts
Grid-No.2 Supply Voltage	—	330	volts
Grid-No.2 (Screen-Grid) Voltage	—	See curve page 300	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2.8	2.3	watts