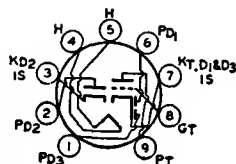


### TRIPLE DIODE— HIGH-MU TRIODE

## 6T8A

Related type:  
5T8

Miniature type used as combined audio amplifier, AM detector, and FM detector in AM/FM radio receivers. Diode unit No.1 is used for AM detection, and diode units No.2 and No.3 are used for FM detection. This type



has a controlled heater warm-up time for use in receivers employing series-connected heater strings. Outline 6B, **Outlines** section. Tube requires miniature nine-contact socket and may be mounted in any position. For typical operation as resistance-coupled amplifier, refer to **Resistance-Coupled Amplifier** section. Type 5T8 is identical with type 6T8A except for the heater ratings, as shown below.

	5T8	6T8A	
Heater Voltage (ac/dc) .....	4.7	6.3	volts
Heater Current .....	0.6	0.45	ampere
Heater Warm-up Time (Average) .....	11	11	seconds
<b>Peak Heater-Cathode Voltage:</b>			
Heater negative with respect to cathode .....	200 max	100 max	volts
Heater positive with respect to cathode .....	200 max#	100 max	volts
<b>Direct Interelectrode Capacitances:</b>			
<b>Triode Unit:</b>			
Grid to Plate .....	Without External Shield	With External Shield*	
Grid to Cathode, Internal Shield (pin 7), and Heater Plate to Cathode, Internal Shield (pin 7), and Heater .....	1.7	1.7	pf
Plate to Cathode, Internal Shield (pin 7), and Heater .....	1.6	1.7	pf
Heater .....	1.2	2.4	pf
<b>Diode Units:</b>			
Diode-No.1 Plate to Cathode, Internal Shield (pin 7), and Heater .....	3.8	3.8	pf
Diode-No.2 Plate to Cathode, Internal Shield (pin 3), and Heater .....	3.8	3.8*	pf
Diode-No.3 Plate to Cathode, Internal Shield (pin 7), and Heater .....	3.4	3.6	pf
Diode-No.2 Cathode, Internal Shield (pin 3) to All Other Electrodes, and Heater .....	7.5	8.5*	pf
Triode Grid to any Diode Plate .....	0.034 max	0.034 max	pf

# The dc component must not exceed 100 volts.

\* With external shield connected to pin 7 except as noted.

• With external shield connected to pin 3.

• With external shield connected to pins 4 and 5.

### Triode Unit as Class A<sub>1</sub> Amplifier

#### MAXIMUM RATINGS (Design-Maximum Values):

Plate Voltage .....	330 max	volts
Grid Voltage, Positive-bias value .....	0 max	volts
Plate Dissipation .....	1.1 max	watts

#### CHARACTERISTICS:

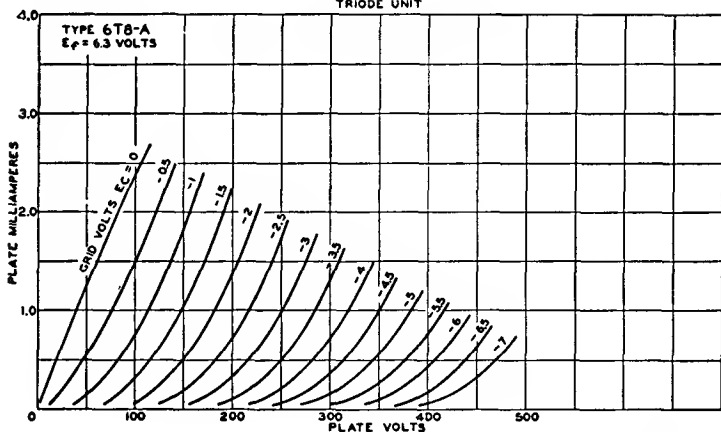
Plate Voltage .....	100	250	volts
Grid Voltage .....	-1	-3	volts
Amplification Factor .....	70	70	
Plate Resistance (Approx.) .....	54000	58000	ohms
Transconductance .....	1300	1200	μmhos
Plate Current .....	0.8	1.0	ma

### Diode Units

#### MAXIMUM RATINGS (Design-Maximum Values):

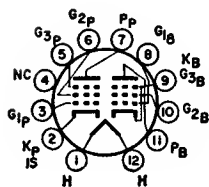
Plate Current (Each Unit) .....	5.5 max	ma
---------------------------------	---------	----

AVERAGE PLATE CHARACTERISTICS  
TRIODE UNIT



92CM-7063T

**BEAM POWER TUBE—  
SHARP-CUTOFF PENTODE**



Duodecar type used as combined FM detector and audio-frequency output amplifier in television receivers. The beam power unit is used in af output stages, and the sharp-cutoff, dual-control pentode unit is used as an FM

**6T10**

detector. Outline 8B, **Outlines** section. Tube requires duodecar twelve-contact socket and may be mounted in any position. Heater volts (ac/dc), 6.3; amperes, 0.95; peak heater-cathode volts, 200 (the dc component must not exceed 100 volts when the heater is positive with respect to the cathode). For maximum ratings and characteristics, refer to type 6AL11.

**ELECTRON-RAY TUBE**

Renewal type; see chart at end of section for tabulated data.

**6U5**

**REMOTE-CUTOFF PENTODE**

Discontinued type; see chart at end of section for tabulated data.

**6U7G**

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

Discontinued type; see chart at end of section for tabulated data.

**6U8**