



## BEAM TRIODE

**6HZ5/6JD5**

Duodecar type used as a pulse-type regulator in the high-voltage power supply of color television receivers. Outlines section, 15F; requires duodecar 12-contact socket.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	2.4	amperes
Direct Interelectrode Capacitances (Approx.):		
Grid to Plate	1.7	pF
Grid to Cathode, Heater, and Beam Plate	23	pF
Plate to Cathode, Heater, and Beam Plate	12	pF

**344**

## RCA RECEIVING TUBE MANUAL

### Class A<sub>1</sub> Amplifier

#### CHARACTERISTICS

Pulse Plate Voltage*			
Grid No.2 (Beam Plate)	Connected	3500	volts
Grid-Voltage, Negative-bias value		to cathode at socket	
Peak Plate Current		4.4	volts
Amplification Factor		300	mA
Transconductance		300	
Plate Resistance (Approx.)		55000	μmhos
Grid Voltage (Approx.) for plate current of 1 mA and plate voltage of 3500 volts		4600	ohms
		—16	volts

\* Duty cycle of the pulse must be less than 2.5%.

### High-Voltage Regulator Service

For operation in a 525-line, 30-frame system

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

Peak Plate Voltage#		5500	volts
Plate Dissipation		35	watts
Peak Plate Current		325	mA
Heater-Cathode Voltage:			
Peak value	+200	—450	volts
Average value		100	volts
Bulb Temperature (At hottest point)		240	°C

#### MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance▲	0.1	megohm
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# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

▲ Larger values of grid-circuit resistance may be used if provisions are made to protect the tube.