The 3CB6 is a miniature pentode designed for use as a radio-frequency or intermediate-frequency amplifier in television receivers. Features of the tube include high transconductance and low interelectrode capacitances. The suppressor and cathode terminals are brought out to separate base pins to permit the use of an unbypassed cathode-bias resistor to minimize the effects of regeneration. Except for heater characteristics and heater-cathode voltage ratings, the 3CB6 is identical to the 6CB6-A.

**GENERAL**

**ELECTRICAL**

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC*: ................................................................. 3.15 Volts

Heater Current‡ ................................................................. 0.6±0.04 Amperes

Heater Warm-up Time, average§ ..................................................... 11 Seconds

**MAXIMUM RATINGS**

Heater-Cathode Voltage

Heater Positive with Respect to Cathode

DC Component ................................................................. 100 Volts

Total DC and Peak ................................................................. 200 Volts

Heater Negative with Respect to Cathode

DC Component ................................................................. 200 Volts

Total DC and Peak ................................................................. 300 Volts

**NOTES**

* Heater voltage for a bogey tube at If = 0.6 amperes.

‡ The equipment designer should design the equipment so that heater current is centered at the specified bogey value, with heater supply variations restricted to maintain heater current within the specified tolerance.

§ The time required for the voltage across the heater to reach 80 percent of the bogey value after applying 4 times the bogey heater voltage to a circuit consisting of the tube heater in series with a resistance equal to 3 times the bogey heater voltage divided by the bogey heater current.

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