TUNG-SOL

BEAM PENTODE
MINIATURE TYPE

UNIPOTENTIAL CATHODE

HEATER
35±10% VOLTS 0.15 AMP.
AC OR DC
ANY MOUNTING POSITION

BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

THE 35C5 IS A BEAM POWER AMPLIFIER IN THE MINIATURE CONSTRUCTION. BECAUSE OF ITS HIGH POWER SENSITIVITY AT LOW PLATE-SCREEN VOLTAGE, IT IS PARTICULARLY ADAPTABLE TO AC/DC RECEIVER APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITH NO EXTERNAL SHIELD

GRID TO PLATE: (G TO P) 0.60 µµµ
GRID #1 TO CATHODE & GRID #3, GRID #2 & HEATER 12 * µµµ
PLATE TO CATHODE & GRID #3, GRID #2 & HEATER 9 * µµµ

RATINGS —
INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

HEATER VOLTAGE 35±10% VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE 200 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE 200 VOLTS
MAXIMUM PLATE VOLTAGE 150 VOLTS
MAXIMUM GRID #2 VOLTAGE 130 VOLTS
MAXIMUM PLATE DISSIPATION 5.2 WATTS
MAXIMUM GRID #2 DISSIPATION 1.1 WATT
MAXIMUM GRID #4 CIRCUIT RESISTANCE 0.1 MEGOHM
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT ON BULB SURFACE) 250 °C

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A1 AMPLIFIER

HEATER VOLTAGE 35±10% VOLTS
HEATER CURRENT 0.45 AMP.
PLATE VOLTAGE 110 VOLTS
GRID #2 VOLTAGE 110 VOLTS
GRID #4 VOLTAGE -7.5 VOLTS
PEAK AF GRID #4 VOLTAGE 7.5 VOLTS
ZERO-SIGNAL PLATE CURRENT 40 MA.
ZERO-SIGNAL GRID #2 CURRENT (NOMINAL) 3 MA.
MAXIMUM SIGNAL PLATE CURRENT 41 MA.
MAXIMUM SIGNAL GRID #2 CURRENT 7 MA.
TRANSCONDUCTANCE 5 800 MICROMOH.
LOAD RESISTANCE 2 500 OHMS
TOTAL HARMONIC DISTORTION 10 PERCENT
MAXIMUM SIGNAL POWER OUTPUT 1.5 WATTS

* DC COMPONENT MUST NOT EXCEED 100 VOLTS.

— INDICATES A CHANGE.
35C5
PENTODE CONNECTION

\( E_f = 35 \text{ Volts} \)
\( E_{C2} = 110 \text{ Volts} \)

- Plate (I_b) or Screen (I_{C2}) Milliamperes
- Plate Volts

35C5
PENTODE CONNECTION

\( E_f = 35 \text{ Volts} \)
\( E_b = 110 \text{ Volts} \)
\( E_{C2} = 110 \text{ Volts} \)
\( E_{C4} = -7.5 \text{ Volts} \)
\( E_{sig} = 5.3 \text{ Volts RMS} \)

- Power Output (P_o) - Watts
- Total Harmonic Distortion - Percent

Load Resistance \( (R_1) \) - Kilohms