MECHANICAL DATA

Bulb .................................................. T-5 3/4
Base .................................................. E7-1, Miniature Button 7-Pin
Outline ............................................... 5-2
Basing ................................................ 7CM
Cathode .............................................. Coated Unipotential
Mounting Position .............................. Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ................................... 6.3 Volts
Heater Current .................................. 300 Ma
Heater-Cathode Voltage (Design Center Values)
Heater Negative with Respect to Cathode
Total DC and Peak ................................ 200 Volts Max.
Heater Positive with Respect to Cathode
DC .................................................. 100 Volts Max.
Total DC and Peak ................................ 200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate .......................... 0.02 µF Max.
Input .............................................. 6.5 µF
Output ............................................. 2.0 µF

RATINGS (Design Center Values)

Plate Voltage ...................................... 300 Volts Max.
Grid No. 2 Supply Voltage ................... 300 Volts Max.
Grid No. 2 Voltage .............................. See Rating Chart
Grid No. 3 Voltage .............................. 0 Volts Max.
Grid No. 1 Voltage .............................. 0 Volts Max.
Plate Dissipation .............................. 2 Watts Max.
Grid No. 2 Dissipation ......................... 0.5 Watt Max.
Grid No. 1 Circuit Resistance
Fixed Bias ....................................... 0.25 Megohm Max.
Self Bias ......................................... 1.0 Megohm Max.

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage ...................................... 200 Volts
Grid No. 3 ........................................ Connected to Cathode at Socket
Grid No. 2 Voltage ................................ 150 Volts
Cathode Bias Resistor ......................... 180 Ohms
Plate Resistance (approx.) .......... 0.5 Megohm
Transconductance ......................... 5500 µmhos
Plate Current ................................... 9 Ma
Grid No. 2 Current ............................. 3 Ma
Grid No. 1 Bias (approx.) for gm = 50 µmhos ... -12.5 Volts

The Sylvania Type 6DC6 is a semi-remote cutoff pentode contained in a T-5 3/4 bulb. It is designed for service in the IF stages of color and monochrome television receivers and may be used in the tuners of such sets as an AF amplifier.

SYLVANIA ELECTRIC PRODUCTS INC.
RADIO TUBE DIVISION
EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA
JULY 1956
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AVERAGE PLATE CHARACTERISTICS

$E_f = $RATED VALUE
$E_{c2} = 250 \text{ VOLTS}$
$E_{c3} = 0 \text{ VOLTS}$

-1
-2
-3
-4
-6
-10

PLATE VOLTS
AVERAGE TRANSFER CHARACTERISTICS

$E_f = \text{RATED VALUE}$

$E_{C3} = 0 \text{ VOLTS}$

$E_b = 200 \text{ VOLTS}$

Current in mA

Grid No. 1 Voltage

$E_{C2} = 50 \text{ VOLTS}$

$E_{C2} = 100 \text{ VOLTS}$

$E_{C2} = 150 \text{ VOLTS}$

$E_{C2} = 250 \text{ VOLTS}$

THRU 33000 OHMS
AVERAGE TRANSFER CHARACTERISTICS

$E_f = $RATED VALUE
$E_{C3} = $ 0 VOLTS
$E_{b} = $200 VOLTS
AVERAGE TRANSFER CHARACTERISTICS

$E_F =$ RATED VALUE
$E_{C3} =$ 0 VOLTS
$E_B =$ 200 VOLTS

TRANSCONDUCTANCE - MICROMHOS

GRID NO.1 VOLTAGE