

Sharp-Cutoff Pentode

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.3	amp
Warm-up time (Average)	11	sec

Direct Interelectrode Capacitances:^a

Grid No.1 to plate	0.03 max.	$\mu\mu\text{f}$
Grid No.1 to cathode & grid No.3 & internal shield, grid No.2, and heater	6.5	$\mu\mu\text{f}$
Plate to cathode & grid No.3 & internal shield, grid No.2, and heater	1.9	$\mu\mu\text{f}$

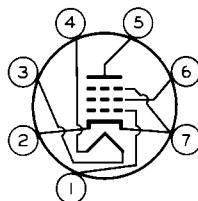
Characteristics, Class A₁ Amplifier:

Plate Voltage	125	volts
Grid-No.2 Voltage	125	volts
Grid-No.1 Supply Voltage	-1	volt
Grid-No.1 Resistor (Bypassed)	1	megohm
Plate Resistance (Approx.)	0.3	megohm
Transconductance	7600	μmhos
Plate Current	11	ma
Grid-No.2 Current	2.3	ma
Grid-No.1 Voltage (Approx.) for plate $\mu\alpha = 35$	-5	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" $\pm$ 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW	7BD

Pin 1 - Grid-No.1
Pin 2 - Cathode,
Grid No.3,
Internal
Shield
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - Same as
Pin 2

AMPLIFIER — Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	150 max.	volts



6CE5

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive-bias value. 0 max. volts

GRID-No.2 INPUT. 0.5 max. watt

PLATE DISSIPATION. 2 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 200 max. volts

Heater positive with respect to cathode. . 200^b max. volts

^a Without external shield.

^b The dc component must not exceed 100 volts.

