



ILD5

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DIODE—SHARP-CUTOFF PENTODE

GENERAL DATA**Electrical:**

Filament, Coated:

Voltage. 1.4 dc volts

Current. 0.05 amp

Direct Interelectrode Capacitances:⁰*Pentode Unit:*Grid No.1 to Plate . . . 0.18 $\mu\mu\text{f}$ Input. 3.2 $\mu\mu\text{f}$ Output 6.0 $\mu\mu\text{f}$ ⁰ With external shield connected to negative filament terminal.**Mechanical:**

Mounting Position. Any

Maximum Overall Length 2-25/32"

Maximum Seated Length. 2-1/4"

Maximum Diameter 1-3/16"

Bulb T-9

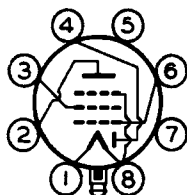
Base Lock-in 8-Pin

Basing Designation for BOTTOM VIEW 6AX

Pin 1—Filament (+)

Pin 2—Pentode
PlatePin 3—Pentode
Grid No.2

Pin 4—Diode Plate

Pin 5—No
Connection

Pin 6—Pentode

Grid No.1

Pin 7—No

Connection

Pin 8—Filament (-),
Pentode

Grid No.3

Plug — Base Shell

PENTODE UNIT
AMPLIFIER — Class A₁**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. 110 max. volts

GRID-No.2 (SCREEN) VOLTAGE 50 max. volts

Typical Operation and Characteristics:

Plate Voltage. 45 90 . . volts

Grid-No.2 Voltage. 45 45 . . volts

Grid-No.1 Voltage. 0 0 . . volts

Plate Resistance (Approx.) 0.9 0.75 . megohm

Transconductance 550 575 . μmhos

Plate Current. 0.55 0.6 . . ma

Grid-No.2 Current. 0.12 0.1 . . ma

DIODE UNIT

The diode is located at the negative end of the filament and is independent of the pentode unit except for the common filament.