

ELECTRONIC TUBE REFERENCE

1AH6

Voltage Pentode or Tetrode (with diode) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Directly heated battery diode-pentode combining radio signal detection with subsequent low-frequency voltage amplification. The diode recovers the received signal while the pentode provides AF gain in economical portable receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AU	BASE PINS	—
NOMINAL HEATER	1.4 V / 25 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

6AU - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 — 1G3	A	G3 — Suppressor Grid	CONNECTED
PIN1 — F	—	F — Filament	CONNECTED
PIN3 — 2P	B	P — Plate (Anode)	CONNECTED
PIN4 — 1G2	A	G2 — Screen Grid	CONNECTED
PIN5 — 1P	A	P — Plate (Anode)	CONNECTED
PIN6 — 1G1	A	G1 — Control Grid	CONNECTED
PIN7 — F	—	F — Filament	CONNECTED

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

General Electric identifies 1AH6 as a directly heated battery diode plus sharp-cutoff AF pentode, 1.4 V 25 mA filament. This physical diode serves low-level signal detection. The condensed tabulation supplies no separate defensible diode absolute limits; existing NULL ratings retained. Other combined tube section is an AF pentode. Do not transfer values from ambiguous neighboring rows in condensed characteristic chart.

SECTION2 Pentode

MAXIMUM PLATE VOLTAGE	90 V
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MAXIMUM SCREEN VOLTAGE	90 V
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General Electric 1AH6 sharp-cutoff AF pentode with separate signal-detector diode, directly heated 1.4 V 25 mA battery filament. Published maximum plate 90 V and screen 90 V already retained. Condensed manufacturer's chart has neighboring-type OCR alignment uncertainty, so no unsupported gm, plate resistance or dissipation values promoted. Prior operating-point parameter records are preserved without modification.

Directly heated combination diode and sharp-cutoff audio-frequency pentode for low-current Class-A amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	85 V	ClassA
Screen voltage	35 V	ClassA
Plate current	0.05 mA	ClassA
Screen current	0.015 mA	ClassA
Load resistance	1000000 Ω	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification	62	ClassA