



ELECTRONIC TUBE REFERENCE

1F7GV

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-PENTODE

Directly heated duplex-diode sharp-cutoff pentode for detector and Class A voltage-amplifier service in battery receivers. Two diodes provide signal and control rectification while the pentode supplies subsequent gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AD	BASE PINS	7
NOMINAL HEATER	2 V / 60 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Two equivalent diode detector sections represented by one compressed diode row.

SECTION2 Pentode

PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.00065 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	67.5 V
<i>Sharp-cutoff pentode amplifier section.</i>	

SECTION3 Diode

No fixed ratings recorded.

Added approved missing second physical detector diode row.

Directly heated duplex-diode sharp-cutoff pentode for detector and 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
Maximum plate voltage	180 V	—
Maximum screen-grid voltage	67.5 V	—
Plate voltage	180 V	ClassA
Screen-grid voltage	67.5 V	ClassA
Control-grid voltage	-1.5 V	ClassA
Plate current	2.2 mA	ClassA
Screen-grid current	0.7 mA	ClassA
Plate resistance	1000000 Ohm	ClassA
Transconductance	650 uS	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	3.8 pF	—
Output capacitance	9.5 pF	—
Grid-to-plate capacitance	0.001 pF	—

TUBE TINKER

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