

ELECTRONIC TUBE REFERENCE

1T6

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Ultra-low-power directly heated diode-pentode for detector and voltage-amplifier service in battery receivers. The diode supplies signal rectification while the pentode provides subsequent gain from very modest filament and plate supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DA	BASE PINS	—
NOMINAL HEATER	1.25 V / 40 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode	
No fixed ratings recorded.	
Detector diode section.	

SECTION2 Pentode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.0006 S
MAXIMUM PLATE VOLTAGE	67.5 V
MAXIMUM SCREEN VOLTAGE	67.5 V
Directly heated diode-pentode for detector and low-voltage amplifier service.	

Directly heated diode-pentode for detector and low-voltage amplifier service. Published maximum ratings, characteristics, and representative operating conditions were extracted from the approved manual page.

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	67.5 V	ClassA; OperatingPoint1
Screen voltage	67.5 V	ClassA; OperatingPoint1
Control-grid bias	0 V	ClassA; OperatingPoint1
Plate current	1.6 mA	ClassA; OperatingPoint1
Screen current	0.4 mA	ClassA; OperatingPoint1
Plate voltage	30 V	ClassA; OperatingPoint2
Screen voltage	30 V	ClassA; OperatingPoint2
Control-grid bias	0 V	ClassA; OperatingPoint2
Plate current	0.33 mA	ClassA; OperatingPoint2
Screen current	0.1 mA	ClassA; OperatingPoint2
Maximum plate voltage	67.5 V	—
Maximum screen voltage	67.5 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	400000 ohm	ClassA; OperatingPoint1
Transconductance	600 uS	ClassA; OperatingPoint1
Plate resistance	500000 ohm	ClassA; OperatingPoint2
Transconductance	330 uS	ClassA; OperatingPoint2