



ELECTRONIC TUBE REFERENCE

6T8

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL DATA

4 SECTIONS

CONSTRUCTION

**DIODE-DIODE-DIODE-
TRIODE**

Triple-diode high-mu triode combining radio detector, discriminator, delayed-AVC, and audio-amplifier functions. Three diode sections support multiple rectification duties while the triode supplies subsequent voltage gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	RETMA 9E	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Representative row for three high-perveance diode sections.

SECTION2 Triode

PLATE RESISTANCE	58000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
<i>Triode characteristics use the published 250 V operating point.</i>	

SECTION3 Diode

No fixed ratings recorded.

Physical diode section added during approved section-structure reconciliation.

SECTION4 Diode

No fixed ratings recorded.

Physical diode section added during approved section-structure reconciliation.

Triple-diode triode for discriminator, delayed-AVC, and audio-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 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	1.6 pF	—
Output capacitance	1 pF	—
Grid-plate capacitance	2.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA; OperatingPoint1
Grid voltage	-3 V	ClassA; OperatingPoint1
Plate current	1 mA	ClassA; OperatingPoint1
Plate voltage	100 V	ClassA; OperatingPoint2
Grid voltage	-1 V	ClassA; OperatingPoint2
Plate current	0.8 mA	ClassA; OperatingPoint2

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	58000 ohm	ClassA; OperatingPoint1
Transconductance	1200 uS	ClassA; OperatingPoint1
Plate resistance	54000 ohm	ClassA; OperatingPoint2
Transconductance	1300 uS	ClassA; OperatingPoint2
Amplification factor	70	ClassA

1968 General Electric Co

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

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Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Continuous Diode Current	5 mA	EachDiode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode Input Capacitance	3.8 pF	Section1
Diode Input Capacitance	4.5 pF	Section2
Diode Input Capacitance	3.8 pF	Section3

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Section 2 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	1.8 pF	—
Input Capacitance	1.6 pF	—
Output Capacitance	1.1 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Grid Voltage	-3 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	1 mA	ClassA

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

