



ELECTRONIC TUBE REFERENCE

6AW7GT

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

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Receiving tube combining radio signal detection or control-voltage rectification with associated voltage amplification. Its detector function is integral to receiver signal processing and supports classification within the radio detector/converter family.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8C0	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode

PLATE RESISTANCE	80000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	80
MAXIMUM PLATE VOLTAGE	300 V

Values promoted only where clearly published for this section in the approved source.

SECTION2 Diode

No fixed ratings recorded.

Values promoted only where clearly published for this section in the approved source.

SECTION3 Diode

No fixed ratings recorded.

Values promoted only where clearly published for this section in the approved source.

Double-diode high-mu triode receiving tube.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 National Union

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

1938 NATIONAL UNION

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Dicde Plate No	1 ppf	Published source value; see source line context.
Heater Current it e mmaaee	0.3 Ma	Published source value; see source line context.
Average Diode Current with	3 Ma	Published source value; see source line context.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac or dc) . _ \$	3 Volts	Published source value; see source line context.
Published value	300 Volts	Published source value; see source line context.
Maximum Heater Cathode Voltage	90 Volts	Published source value; see source line context.
Moximum Diode Plate Dissipation	0.5 Watt	Published source value; see source line context.
Maximum continuous Diode Current (each diode)	1 Ma	Published source value; see source line context.
Heater Voltage o i i	6.3 Volts	Published source value; see source line context.
Plate Voltage . . . o it e e	100 Volts	Published source value; see source line context.
e	1.4 Ma	Published source value; see source line context.
TranscondUCEaRCe . . ee e e e e e e eaaaaa	1200 umhos	Published source value; see source line context.

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 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Grid voltage	-1 V	ClassA
Plate current	0.5 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	100	ClassA