



ELECTRONIC TUBE REFERENCE

3A8GT

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-PENTODE-TRIODE

Directly heated diode-triode sharp-cutoff RF pentode combination for battery-operated receiving service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8AS	BASE PINS	8
NOMINAL HEATER	2.8 V / 50 mA	PARALLEL HEATER	1.4 V / 100 mA
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Published handbook ratings and operating characteristics reviewed.

SECTION2 Triode

PLATE RESISTANCE	200000 Ω
TRANSCONDUCTANCE	0.000325 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE VOLTAGE	110 V

Published handbook ratings and operating characteristics reviewed.

SECTION3 Pentode	
PLATE RESISTANCE	800000 Ω
TRANSCONDUCTANCE	0.00075 S
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM SCREEN VOLTAGE	110 V
<i>Published handbook ratings and operating characteristics reviewed.</i>	

3A8GT is listed in the supplied receiving-tube handbook as a diode-triode sharp-cutoff RF pentode. The published heater/filament rating is 2.8 V at 0.05 A.

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 3 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	110 V	Published handbook rating
Maximum screen voltage	110 V	Published handbook rating
Plate voltage	90 V	ClassA
Screen voltage	90 V	ClassA
Control-grid bias	0 V	ClassA
Plate current	1.5 mA	ClassA
Screen current	0.5 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	800000 ohm	Published handbook characteristic
Transconductance	750 μ S	Published handbook characteristic
Heater/filament voltage	2.8 V	Published heater/filament rating
Heater/filament current	50 mA	Published heater/filament rating

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum diode current	0.5 mA	10VDC

1961 TUNG SOL

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate voltage	90 V	Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate resistance	200000 ohm	Triode
Triode transconductance	325 uS	Triode
Triode amplification factor	65	Triode

1961 TUNG SOL

Section 3 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode plate voltage	90 V	Pentode
Pentode screen voltage	90 V	Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode plate resistance	800000 ohm	Pentode
Pentode transconductance	750 uS	Pentode

TUBE TINKER

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