



ELECTRONIC TUBE REFERENCE

884

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

Gas triode for sweep-circuit oscillator service or grid-controlled rectification. Its controlled discharge supports relaxation oscillators and switching applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	G602	BASE PINS	8
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM CATHODE CURRENT	75 mA
<i>Gas-filled controlled triode/thyatron; 300 V is maximum instantaneous anode voltage in relaxation-oscillator service; 75 mA is maximum average anode current in controlled-rectifier service.</i>	

Gas triode designed for sweep-circuit oscillator service or grid-controlled rectifier operation.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Thyatron

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	300 V	—
Maximum Cathode Current	75 mA	—
Peak Plate Current	300 mA	—
Average Plate Current	75 mA	Grid-controlled rectifier; after warmup

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	16 V	—



SOURCE OPERATING CONDITIONS

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1960 Mazda

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1960 MAZDA

Section 1 · Thyatron

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode capacitance	3.5 pF	—
Grid-cathode capacitance	3.5 pF	—
Anode-cathode capacitance	2.5 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Approximate conducting voltage drop	16 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak voltage between any two electrodes	350 V	—
Peak anode current	300 mA	—
Average anode current below 200 Hz	3 mA	—
Average anode current above 200 Hz	2 mA	—
Controlled-rectifier average anode current	75 mA	—
Heater-cathode DC voltage minimum	-100 V	—
Heater-cathode DC voltage maximum	25 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1960 RCA Industrial and Communications Types

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1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	600 mA	—
DeviceClass	Negative-control gas triode	—

SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 2 of 7

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1971 RCA HB3 BINDER 2 OF 7

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	600 mA	Nominal
Peak anode voltage - relaxation oscillator service	300 V	—
Peak anode voltage - relay/rectifier service	350 V	—
Peak cathode current	300 mA	—
Average cathode current - relay/rectifier service	75 mA	—
Peak grid current - relaxation oscillator service	1 mA	—
DC heater-cathode potential	-100 to +25 V	—
Ambient temperature range	-75 to +90 C	—
Recommended heater warmup before conduction	10 s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	6 pF	—
Grid-to-cathode capacitance	2 pF	—
Anode-to-cathode capacitance	0.6 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	16 V	—