

ELECTRONIC TUBE REFERENCE

6130

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Hydrogen thyatron for high-repetition-rate, high-peak-current pulsing, including high-altitude and zero-bias-control operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 2.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM CATHODE CURRENT	35 A
FORWARD VOLTAGE DROP	150 V
Thyatron pulse ratings promoted where semantically compatible; trigger, delay, jitter, reservoir and current-rate data retained as parameters.	

Hydrogen thyatron for high-repetition-rate pulsing at high peak current, including high-altitude operation and zero-bias control.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	25000 V	—
Maximum Cathode Current	325 A	—
Peak Anode Current	325 A	—
Maximum Repetition Rate	4000 pps	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Altitude Capability	50000 ft	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	2 A–2.5 A	—
Heater voltage nominal	6.3 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum heating time	2 min	—
Maximum peak forward anode voltage	3000 V	—
Maximum peak inverse anode voltage	3000 V	—
Maximum peak anode current	35 A	—
Maximum average anode current	45 mA	—
Maximum RMS anode current	1.25 A	—
Maximum anode current rate of rise	750 A/us	—
Maximum peak inverse trigger voltage	200 V	—
Maximum anode delay time	0.6 us	—
Maximum anode delay-time drift	0.15 us	—
Initial maximum time jitter	0.02 us	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 2 of 7

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

1971 RCA HB3 BINDER 2 OF 7

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward anode voltage	3000 V	—
Peak inverse anode voltage	1500 V	—
Peak cathode/anode current	35 A	—
Average cathode/anode current	45 mA	—
Ambient temperature range	-50 to +90 C	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	2.3 A	—
Minimum DC anode-supply voltage	800 V	PulseModulator
Peak positive grid pulse	175 V	PulseModulator
Current rate of rise	750 A/us	PulseModulator
Pulse duration	6 us	PulseModulator
Peak power output	43 kW	TypicalPulseOperation

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization time	0.6 us	Approximate
Deionization time	25 us	Approximate
Anode voltage drop	150 V	Conducting
Minimum heating time	2 min	BeforeConduction
Maximum jitter	0.06 us	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas fill	Hydrogen	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	3.9 pF	Approximate
Grid-to-cathode capacitance	8.6 pF	Approximate

TUBE TINKER

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