

ELECTRONIC TUBE REFERENCE

8424

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Hydrogen-filled three-element thyatron for pulse-network discharge service, capable of megawatt-class pulse output and high repetition rates.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 10.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	12000 V
NOMINAL OUTPUT CURRENT	200 mA
PEAK FORWARD CURRENT	130 A
WARM-UP TIME	300 s
Applicable promoted fields mapped semantically from the printed ratings; device-specific electrical limits and operating conditions are preserved densely in TUBE_SECTION_PARAMETER.	

Hydrogen-filled three-element thyatron for pulse-network discharge service, capable of more than 1.5 MW pulse output and high repetition rates.



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 Voltage	5.9–6.7 V	—
Heater Current	9.6 A–11.6 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum Heating Time	5 min	—
Peak Forward Anode Voltage	12000 V	—
Peak Inverse Anode Voltage	12000 V	—
Peak Anode Current	130 A	—
Average Anode Current	200 mA	—
Peak Power Output	736 kW	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Thyatron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum heating time	5 min	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward anode voltage maximum	12 kV	—
Peak inverse anode voltage maximum	12 kV	—
Minimum anode supply voltage	3.5 kV	—
Peak anode current maximum	300 A	—
Average anode current maximum	200 mA	—
RMS anode current maximum	7.75 A	—
Anode current rate of rise maximum	1250 A/us	—
Peak inverse trigger voltage maximum	200 V	—
Anode delay time maximum	0.65 us	—
Anode delay drift maximum	0.1 us	—
Time jitter maximum	0.005 us	—
Peak network voltage	12 kV	PulseModulator
Pulse repetition rate	2500 pps	PulseModulator
Pulse length	0.4 us	PulseModulator
PFN impedance	48 Ohm	PulseModulator
Trigger voltage	200 V	PulseModulator
Peak output power	736 kW	PulseModulator
Peak anode current	130 A	PulseModulator
Average anode current	130 mA	PulseModulator

TUBE TINKER

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and their source documents.

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