



ELECTRONIC TUBE REFERENCE

7890

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Hydrogen thyatron for fast high-voltage, high-current pulse switching in radar modulators, pulse networks, crowbar protection, or related pulsed-power systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	40000 V

Large ceramic hydrogen thyatron rated for 40-MW pulse service.



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 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Peak forward anode voltage	40000 V	—
Peak inverse anode voltage	40000 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	400 V	—
Anode delay time	0.5 us	—
Time jitter	5 ns	—



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	6.3 V	—
Heater Current	25-35 A	—
Minimum Heating Time	900 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Anode Voltage Forward	40000 V	—
Maximum Peak Anode Voltage Inverse	40000 V	—
Maximum Peak Anode Current	2400 A	—
Maximum Average Anode Current	2.6 A	—
Maximum RMS Anode Current	15 A	—
Maximum Anode Current Rate of Rise	10000 A/us	—
Maximum Anode Delay Time	1 us	—

TUBE TINKER

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