

ELECTRONIC TUBE REFERENCE

7590

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	8
NOMINAL HEATER	6.3 V / 16 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	25000 V
Published ratings and characteristics mapped semantically; identical repeated sections compressed.	

Hydrogen thyatron for crowbar protection 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
Peak Cathode Current	1200 A	Crowbar
ForwardAnodeVoltage	25 kV	Crowbar

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Heating Time	3 min	—



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	12-22 A	—
Minimum Heating Time	180 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Anode Voltage Forward	25000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Anode Voltage Inverse	15000 V	—
Maximum Peak Anode Current	1000 A	—
Maximum Peak Anode Voltage Forward Transient	30000 V	—
Maximum Average Anode Current	500 mA	—
Maximum Anode Current Rate of Rise	2500 A/us	—
Maximum Anode Delay Time	1.8 us	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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