



ELECTRONIC TUBE REFERENCE

53TR40

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Hydrogen-filled pulse thyatron designed to control pulse powers up to approximately 5 MW, providing rapid high-current switching for demanding pulsed-power equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM CATHODE CURRENT	500 mA
Thyatron is represented as SectionType=Other because no dedicated canonical Thyatron section type exists.	

Hydrogen-filled pulse thyatron intended for controlling pulse powers up to approximately 5 MW.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	9 A	Nominal
Maximum Plate Voltage	20000 V	—
Peak Anode Current	500 A	Pulse
MaximumPulseDuration	6 us	Pulse



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tesla Tubes

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

1966 TESLA TUBES

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater warm-up time	10 min	OCR appears as 10 min
Hydrogen replenisher heater voltage	6.3 V	HydrogenReplenisher
Hydrogen replenisher heater current	500 mA	HydrogenReplenisher
Maximum inverse anode voltage	20000 V	—
Maximum peak anode current	500 A	Pulse

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum average anode current	500 mA	—
Maximum pulse duration	6 us	Pulse
Maximum duty ratio	1:1000	Pulse
Maximum glass-to-metal seal temperature	200 degC	Cooling
Vibration resistance	4 g	Operating

TUBE TINKER

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