

ELECTRONIC TUBE REFERENCE

7583

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

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM CATHODE CURRENT	35 A

Hydrogen-filled thyatron for network-discharge pulse service.

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	2.0-2.5 A	—
Minimum Heating Time	120 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Anode Voltage Forward	8000 V	—
Maximum Peak Anode Voltage Inverse	8000 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	1200 A/us	—
Maximum Anode Delay Time	0.6 us	—