



ELECTRONIC TUBE REFERENCE

7872

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

No fixed ratings recorded.

The 7872 is a three-electrode, hydrogen-filled thyatron designed for high-power switching applications. A hydrogen reservoir, with a separate external base connection, promotes long life and permits optimum pressure adjustment for various operating conditions. The control grid is brought out to both a base pin and to a grid ring for flexibility in circuit design. Termination to the grid ring is made in applications where grid lead inductance is critical.

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	18000 V	—
Peak inverse anode voltage	18000 V	—
Peak cathode current	365 A	—
Average cathode current	250 mA	—
Current rate of rise	1500 A/us	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode delay time	0.6 us	—
Time jitter	0.005 us	—