



ELECTRONIC TUBE REFERENCE

672A

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Mercury-vapor tetrode thyatron designed for high-voltage grid-controlled rectifier service, providing triggered conduction in substantial power-conversion equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM CATHODE CURRENT	40 A
FORWARD VOLTAGE DROP	12 V
<i>Thyatron section; peak/average current, inverse voltage, timing, and gas/mercury data retained as parameters.</i>	

Mercury-vapor tetrode thyatron for high-voltage grid-controlled rectifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward anode voltage	2500 V	—
Peak inverse anode voltage	2500 V	—
Peak cathode/anode current	40 A	—
Average cathode/anode current	3.2 A	—
Fault or surge current	150 A	ShortDuration
Ambient temperature range	45 to 50 C recommended	—
Heater voltage	5 V	—
Heater current	5 A	—
Peak grid No.2 voltage	-300 V	—
Peak grid No.1 voltage	-1000 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization time	10 us	Approximate
Deionization time	1000 us	Approximate
Anode voltage drop	12 V	Conducting
Minimum heating time	5 min	BeforeConduction

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas fill	Mercury vapor	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	0.04 pF	Approximate
Grid No.2-to-anode capacitance	3 pF	—