



ELECTRONIC TUBE REFERENCE

394A

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Gas-filled grid-controlled thyatron for switching, controlled-rectifier, relay, motor-control, oscillator, or pulse service as documented by the manufacturer.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM CATHODE CURRENT	640 mA
<i>Three-electrode thyatron; SectionType=Other because Thyatron is not a canonical SectionType. MaxPlateVoltage uses published peak anode voltage; MaxCathodeCurrent uses maximum average cathode current.</i>	

The 394A is a three-electrode mercury-vapor and gas-filled thyatron with a negative control characteristic, designed for use in regulated or controlled rectifiers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 300s

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

2026 WESTERN ELECTRIC 300S

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Cathode Current	2.5 A	—
CathodeSurgeCurrent	25 A	Maximum duration 0.1 s
NegativeGridVoltageBeforeConduction	500 V	—
NegativeGridVoltageDuringConduction	10 V	—
PositiveGridCurrentAverage	10 mA	Averaging time one cycle
Anode Grid Capacitance	1.6 pF	Bogey
GridFilamentCapacitance	5.5 pF	Bogey
CondensedMercuryTemperature	-55–80 degC	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage Drop	15 V	Bogey
RequiredFilamentHeatingTime	15 s	—

TUBE TINKER

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and their source documents.

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