



ELECTRONIC TUBE REFERENCE

395A

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Small cold-cathode neon thyatron requiring no heater, intended primarily for relay operation and also useful as a trigger tube, relaxation oscillator, and voltage regulator.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	140 V
MAXIMUM CATHODE CURRENT	13 mA
<i>Forward/inverse peak anode voltage 140 V; maximum average forward cathode current 13 mA.</i>	

The 395A is a small cold-cathode thyatron requiring no heater power and intended primarily for relay operation; it is also suitable as a trigger tube, relaxation oscillator, and voltage regulator.



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
Positive anode voltage	140 V	RelayService
Negative anode voltage	-60 V	NoDischargeToPositiveGrid
Peak recurring cathode current	25 mA	AveragedOver1Second
Typical anode supply voltage	130 V	RelayService
Typical grid trigger voltage	20 V	RelayService

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage drop	75 V	40mA



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Positive anode voltage maximum	140 V	RelayService
Peak recurring cathode current	35 mA	RelayService

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse anode current	1 mA	RelayService
Typical anode supply voltage	130 V	RelayService
Typical positive grid bias	70 V	RelayService
Typical grid trigger voltage	20 V	RelayService
Maximum plate voltage	140 V	PromotedValue
Maximum cathode current	35 mA	PromotedValue
Positive Anode Voltage	140 V	PublishedTable
Peak, Recurring (Averaged Over 1 Second)	35 mA	PublishedTable
Peak Innersf Anode Current	1 mA	PublishedTable
Anode Supply Voltage	130 V	PublishedTable
Grid Circuit Resistance	1 Mohm	PublishedTable

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization time	23 us	RelayService
Anode voltage drop	75 V	RelayService
Grid voltage drop	65 V	RelayService
Anode ionization voltage	170 V	RelayService
Grid ionization voltage	75 V	RelayService
Anode Voltage Drop (At Ib = 10. Ma.)	75 V	PublishedTable
Anode Ionization Voltage (At E Q = 0)	170 V	PublishedTable
Ido E _+	75 V	PublishedTable
Rg = 0	1 Mohm	PublishedTable



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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2026 Western Electric 300s

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ForwardPeakAnodeVoltage	140 V	—
InversePeakAnodeVoltage	140 V	—
PeakForwardCathodeCurrent	35 mA	—
PeakInverseCurrentAnodeOrStarter	1 mA	—
Ruggedness	1000 G	Centrifuge test

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
StarterBreakdownVoltage	80 V	Bogey; Min=71 V; Max=84 V
StarterVoltageDrop	65 V	10 mA; Bogey
Anode Voltage Drop	80 V	10 mA; Bogey
RequiredTransferCurrent	10 uA	130 V anode
DeionizationTimeMainGap	2 ms	Bogey
IonizationTimeStarterGap	0.05 ms	Bogey

TUBE TINKER

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