

ELECTRONIC TUBE REFERENCE

4C35A

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
THYRATRON

Hot-cathode grid-controlled hydrogen thyatron for high-voltage, high-current pulse service, providing rapid switching of substantial stored energy in pulsed-power circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 6.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	8000 V
Published maximum ratings and characteristics audited; remaining values retained densely in parameter table.	

Hot-cathode grid-controlled hydrogen thyatron for high-voltage, high-current pulse service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Thyatron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas filling	Hydrogen	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Starting anode voltage minimum	2500 V	—
Peak inverse anode voltage maximum	8000 V	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TheE [1]	4	TheE 4C35A 1S A UNIPOTENTIAL CATHODE, THREE ELEMENT HYDROGEN FILLED THYRA=-
TheE [2]	5	TheE 4C35A 1S A UNIPOTENTIAL CATHODE, THREE ELEMENT HYDROGEN FILLED THYRA=-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ThE [3]	1	ThE 4C35A 1S A UNIPOTENTIAL CATHODE, THREE ELEMENT HYDROGEN FILLED THYRA=-
Published value [1]	4 W	4C35A ARE 1TS LOW JITTER AND HIGH POWER OUTPUT. PegAK POWERS OF 350 KILO=-
Published value [2]	5 W	4C35A ARE 1TS LOW JITTER AND HIGH POWER OUTPUT. PegAK POWERS OF 350 KILO=-
Published value [3]	1 W	4C35A ARE 1TS LOW JITTER AND HIGH POWER OUTPUT. PegAK POWERS OF 350 KILO=-
Published value [4]	350 W	4C35A ARE 1TS LOW JITTER AND HIGH POWER OUTPUT. PegAK POWERS OF 350 KILO=-
THE HYDROGEN RESERVOIR WITH WHICH THIS TUBE	1	THE HYDROGEN RESERVOIR WITH WHICH THIS TUBE 1S EQUIPPED PROVIDES A LONG
HEATER VOLTAGE [1]	6.3 V	HEATER VOLTAGE 6.3 5.7 6.6 VOLTS A.C.
HEATER VOLTAGE [2]	5.7 V	HEATER VOLTAGE 6.3 5.7 6.6 VOLTS A.C.
HEATER VOLTAGE [3]	6.6 V	HEATER VOLTAGE 6.3 5.7 6.6 VOLTS A.C.
Heater Current (AT [1])	6.3 A	Heater Current (AT 6.3 Vouts) 5.5 6.7 AMPERES
Heater Current (AT [2])	5.5 A	Heater Current (AT 6.3 Vouts) 5.5 6.7 AMPERES
Heater Current (AT [3])	6.7 A	Heater Current (AT 6.3 Vouts) 5.5 6.7 AMPERES
ANODE CaP C1	-43	ANODE CaP C1-43, Meoium, wiTH CORONA SHIELD
Max. Peak ANODE VOLTAGE, FORWARD	8 V	Max. Peak ANODE VOLTAGE, FORWARD 8.0 KiLovoLTs
Min., ANODE SUPPLY VOLTAGE	2.5 V	Min., ANODE SUPPLY VOLTAGE 2.5 KiLovoLTs D.C.
Max. Peak ANODE CURRENT	0 mA	Max. Peak ANODE CURRENT 0 AMPERES
Max. AVERAGE ANODE CURRENT	100 mA	Max. AVERAGE ANODE CURRENT 100 MiLLIAMPERES
Max. RMS Anode Current (Nove [1])	3 mA	Max. RMS Anode Current (Nove 3) 3.0 AMPERES A.C.
Max. RMS Anode Current (Nove [2])	3 mA	Max. RMS Anode Current (Nove 3) 3.0 AMPERES A.C.
Max. ANODE CURRENT RATE OF RiSE	1000 mA	Max. ANODE CURRENT RATE OF RiSE 1000 AMPERES/USECOND

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Max. PeEAK INVERSE TRIGGER VOLTAGE	200 V	Max. PeEAK INVERSE TRIGGER VOLTAGE 200 VoLTs
AMBIENT TEMPERATURE [1]	-50	AMBIENT TEMPERATURE -50° 1o £90° CENT.
AMBIENT TEMPERATURE [2]	1	AMBIENT TEMPERATURE -50° 1o £90° CENT.
AMBIENT TEMPERATURE [3]	90	AMBIENT TEMPERATURE -50° 1o £90° CENT.
PEAK NETWORK VOLTAGE	8 V	PEAK NETWORK VOLTAGE 8.0 KiLovoLts
PuLse REPETITION RATE	2800	PuLse REPETITION RATE 2800 PuLses/SeEconD
PuLse LENGTH	0.4	PuLse LENGTH 0.40 MICROSECOND
TrRIGGER VOLTAGE	200 V	TrRIGGER VOLTAGE 200 VoLTS
Peak Power Output (RESISTIVE LoaD [1])	92 W	Peak Power Output (RESISTIVE LoaD 92% ZN) 330 KILOWATTS
Peak Power Output (RESISTIVE LoaD [2])	330 W	Peak Power Output (RESISTIVE LoaD 92% ZN) 330 KILOWATTS
Peax AnopeE CURRENT	89 A	Peax AnopeE CURRENT 89 AMPERES
AVERAGE ANODE CURRENT	100 mA	AVERAGE ANODE CURRENT 0.10 AMPERES D.C,
IN PULSED OPERATION, THE PEAK INVERSE VOLTAGE, EXCLUSIVE OF SPIKE oF	0.05 V	IN PULSED OPERATION, THE PEAK INVERSE VOLTAGE, EXCLUSIVE OF SPIKE oF 0.05
A. VOLTAGE [1]	175 V	A. VOLTAGE 175-250 VoLTs
A. VOLTAGE [2]	-250 V	A. VOLTAGE 175-250 VoLTs
THE TIME OF ANODE DELAY [1]	1	THE TIME OF ANODE DELAY 1S MEASURED BETWEEN THE 26 PERCENT POINT ON THE
THE TIME OF ANODE DELAY [2]	26	THE TIME OF ANODE DELAY 1S MEASURED BETWEEN THE 26 PERCENT POINT ON THE
TIME JITTER [1]	1 A	TIME JITTER 1S MEASURED AT THE 50 PERCENT POINT ON THE ANODE CURRENT
TIME JITTER [2]	50 A	TIME JITTER 1S MEASURED AT THE 50 PERCENT POINT ON THE ANODE CURRENT
Published value	2	2. HEATER & CATHODE
Published value [1]	3	3. HEATER 4 T
Published value [2]	4	3. HEATER 4 T
Published value [1]	4	4. CATHODE 4 PINS
Published value [2]	4	4. CATHODE 4 PINS

SOURCE OPERATING CONDITIONS

1982 Toshiba

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

1982 TOSHIBA

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Anode Current	90 A	—
Average Anode Current	100 mA	—
Minimum DC Supply Voltage	2500 V	—
Maximum Rate of Rise of Anode Current	1000 A/us	—
Pulse Repetition Rate	2500 pps	—
Pulse Duration	6 us	—
DC Anode Supply Voltage	4000 V	PulseModulator
Pulse Repetition Rate	2250 pps	PulseModulator
Pulse Width	0.5 us	PulseModulator
Peak Power Output	310 kW	PulseModulator
DC Anode Current	94 mA	PulseModulator

TUBE TINKER

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and their source documents.

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