

ELECTRONIC TUBE REFERENCE

6855

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Directly heated gas-and-mercury-vapor negative-control thyatron for grid-controlled rectifier service, combining substantial peak current with triggered power conduction.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4D	BASE PINS	4
NOMINAL HEATER	2.5 V / 800 mA	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	1 A
FORWARD VOLTAGE DROP	8 V
Thyatron has no canonical SectionType; Other used. MaxCathodeCurrent uses published maximum average cathode current; peak/fault currents preserved separately.	

RCA 716/6855 is a directly heated gas-and-mercury-vapor thyatron for grid-controlled rectifier service, rated for 1250-V peak forward/inverse anode voltage and high peak cathode current.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak cathode current	8 A	—
Average cathode current	1 A	—
Fault cathode current	80 A	—
Peak inverse anode voltage	1250 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 2 of 7

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

1971 RCA HB3 BINDER 2 OF 7

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	2.5 V	Nominal
Filament current	6.3 A	Nominal
Maximum deionization time	1000 us	—
Maximum critical grid current	10 uA	—
Peak forward anode voltage	1250 V	—
Peak inverse anode voltage	1250 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak negative grid voltage before conduction	500 V	—
Peak negative grid voltage during conduction	10 V	—
Peak anode/cathode current	8 A	—
Average anode/cathode current	1 A	—
Fault current	80 A	Short-duration fault rating
Ambient or condensed-mercury operating temperature range	-40 to +80 condensed-mercury operating range C	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum heating time prior to tube conduction	15 s	—
Ionization time	10 us	Approximate
Anode voltage drop	8 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	3 pF	Approximate

TUBE TINKER

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