



ELECTRONIC TUBE REFERENCE

6858

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Large directly heated gas-and-mercury-vapor negative-control thyatron for grid-controlled rectifier service, providing very high peak-current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4BZ	BASE PINS	4
NOMINAL HEATER	2.5 V / 21 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM CATHODE CURRENT	6 A
FORWARD VOLTAGE DROP	12 V
<i>Thyatron has no canonical SectionType; Other used. MaxCathodeCurrent uses published maximum average cathode current; peak/fault currents preserved separately.</i>	

RCA 760/6858 is a large directly heated gas-and-mercury-vapor thyatron for grid-controlled rectifier service, with 1500-V peak anode ratings and very high peak current capability.



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	77 A	—
Average cathode current	6 A	—
Fault cathode current	770 A	—
Peak inverse anode voltage	1500 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	21 A	Nominal
Maximum deionization time	1000 us	—
Maximum critical grid current	10 uA	—
Peak forward anode voltage	1500 V	—
Peak inverse anode voltage	1500 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	77 A	—
Average anode/cathode current	6.4 A	—
Fault current	770 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	60 s	—
Ionization time	10 us	Approximate
Anode voltage drop	12 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	4 pF	Approximate

TUBE TINKER

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