

ELECTRONIC TUBE REFERENCE

6011

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Gas-filled grid-controlled thyatron for controlled rectifier, relay, motor-control, industrial switching, or pulse service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	2.5 V / 9 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	2.5 A
FORWARD VOLTAGE DROP	10 V
Thyatron section; published switching/rating data retained below.	

Gas and mercury-vapor negative-control triode thyatron, co-designated with type 710.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 National Electronics Industrial Tubes

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

1956 NATIONAL ELECTRONICS INDUSTRIAL TUBES

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	1500 V	Published datasheet value
Maximum peak forward voltage	1500 V	Published datasheet value
Maximum DC output current	2.5 A	Published datasheet value
Maximum instantaneous output current	30 A	Published datasheet value
Maximum AC short-circuit current	250 A	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating time	20 s	Published datasheet value
Typical arc drop	10 V	At stated peak current
Ionization time	10 us	Approximate
Deionization time	1000 us	Approximate
Anode-grid capacitance	2 pF	Published capacitance
Grid-cathode capacitance	12 pF	Published capacitance

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
Peak forward anode voltage	1500 V	—
Peak inverse anode voltage	1500 V	—
Peak cathode/anode current	30 A	—
Average cathode/anode current	2.5 A	—
Fault or surge current	250 A	ShortDuration
Ambient temperature range	-40 to +90 C	—
Filament voltage	2.5 V	—
Filament current	9 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization time	10 us	Approximate
Deionization time	1000 us	Approximate
Anode voltage drop	10 V	Conducting
Minimum heating time	20 s	BeforeConduction
Condensed-mercury temperature rise no load	25 degC	—
Condensed-mercury temperature rise full load	30 degC	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas fill	Gas and mercury vapor	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	2 pF	Approximate

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-cathode capacitance	12 pF	Approximate

TUBE TINKER

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and their source documents.

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