



ELECTRONIC TUBE REFERENCE

710

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

Gas and mercury-vapor negative-control triode thyatron, co-designated 710/6011, for substantial grid-controlled industrial switching.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	2.5 V / 9 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM CATHODE CURRENT	30 A
FORWARD VOLTAGE DROP	10 V
Thyatron section; peak/average current, inverse voltage, timing, and gas/mercury data retained as parameters.	

Gas and mercury-vapor negative-control triode thyatron, co-designated 710/6011.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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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
Grid-to-cathode capacitance	12 pF	Approximate

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