



ELECTRONIC TUBE REFERENCE

G6JA

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

Xenon negative-control triode thyatron, co-designated G6J-A with the 5685 family, for substantial controlled-power switching.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM CATHODE CURRENT	77 A
FORWARD VOLTAGE DROP	12 V
<i>Thyatron section; peak/average current, inverse voltage, timing, and gas/mercury data retained as parameters.</i>	

Co-designated G6J-A xenon negative-control triode thyatron from the 5685 source.

SOURCE OPERATING CONDITIONS

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	1000 V	—
Peak inverse anode voltage	1250 V	—
Peak cathode/anode current	77 A	—
Average cathode/anode current	6.4 A	—
Fault or surge current	770 A	ShortDuration
Ambient temperature range	-55 to +75 C	—
Filament voltage	2.5 V	—
Filament current	21 A	—
Maximum commutation factor	0.66 V*A/us^2	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ionization time	10 us	Approximate
Deionization time	1000 us	Approximate
Anode voltage drop	12 V	Conducting
Minimum heating time	60 s	BeforeConduction
Maximum critical grid current	10 uA	—
Grid control ratio	210	Approximate

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gas fill	Xenon	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	4 pF	Approximate
Grid-to-cathode capacitance	21 pF	Approximate

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