

ELECTRONIC TUBE REFERENCE

502A

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Gas-filled negative-control triode thyatron designed for high-sensitivity relay-control service, providing grid-triggered switching from comparatively small control signals.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6BS	BASE PINS	6
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

6BS - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – H	–	H – Heater	CONNECTED
PIN3 – P	A	P – Plate (Anode)	CONNECTED
PIN5 – G1	A	G1 – Control Grid	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM CATHODE CURRENT	100 mA
Published maximum ratings, operating characteristics, rectifier/deflection data reviewed.	

Gas-filled negative-control triode thyatron for high-sensitivity relay-control service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	600 mA	Published heater/filament rating
Anode voltage drop	8 V	ControlledRectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC cathode current	100 mA	ControlledRectifier
Maximum peak inverse voltage	1300 V	ControlledRectifier
Maximum peak cathode current	1 A	ControlledRectifier



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Thyatron

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	High-sensitivity relay control	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward anode voltage	650 V	Pulse
Peak inverse anode voltage	1300 V	Pulse

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