



ELECTRONIC TUBE REFERENCE

RK61

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Subminiature gas thyatron for compact switching and control circuits. Its low-power directly heated filament suits small electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4E	BASE PINS	4
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	45 V
MAXIMUM CATHODE CURRENT	1.5 mA
<i>Special circuit—write for data; no standard electrical ratings printed in supplied table.</i>	

Subminiature directly heated three-element gas thyatron for self-quenching super-regenerative detector and relay-control service with very low space, weight, and battery drain.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Thyatron

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	1.4 V	Published nominal value
Heater or filament current	50 mA	Published nominal value
Average tube voltage drop	30 V	At 1.5 mA anode current
Recommended upper operating frequency	100 MHz	Operation above this frequency is stated to be apt to be unstable

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	1.6 pF	Approximate; no external shield
Grid-to-filament capacitance	1.1 pF	Approximate; no external shield
Filament-to-anode capacitance	1 pF	Approximate; no external shield

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	45 V	Design-center maximum
Maximum anode current	1.5 mA	Design-center maximum
Relay resistance	5000 ohm	Recommended relay-control circuit
Anode current without signal	1–1.5 mA	Self-quenching super-regenerative detector
Anode current with signal	0.1–0.5 mA	Self-quenching super-regenerative detector

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	1.4 V	—
Filament current	50 mA	—