



ELECTRONIC TUBE REFERENCE

7981

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

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

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 13.5 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	3.2 A
<i>High-current motor-control thyatron.</i>	

The Mullard 7981 is a high-current inert-gas thyatron designed primarily for motor-control switching.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Thyatron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage Nominal	2.5 V	—
Filament Current	13.5 A	At 2.5V
Cathode Heating Time	60 s	—
Anode-Grid Capacitance	7.5 pF	—
Grid-Cathode Capacitance	5 pF	—
Anode Voltage Drop	16 V	Approximate
Ionisation Time	10 us	Approximate

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Forward Anode Voltage	1500 V	—
Maximum Peak Inverse Anode Voltage	1500 V	—
Maximum Peak Cathode Current	40 A	—
Maximum Average Cathode Current	3.2 A	—
Maximum Surge Cathode Current	560 A	Duration ≤ 0.1s
Maximum Negative Grid Voltage Before Conduction	250 V	—
Maximum Positive Grid Current Peak	2.5 A	Anode Voltage > -10V

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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