

ELECTRONIC TUBE REFERENCE

6727

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

Grid-controlled thyatron rectifier for controlled power conversion, with a 6.3 V heater and published operating ratings for switching and rectifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7BN	BASE PINS	7
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7BN - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN2 – K	A	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – G2	A	G2 – Screen Grid	CONNECTED
PIN6 – P	A	P – Plate (Anode)	CONNECTED
PIN7 – G2	A	G2 – Screen Grid	CONNECTED

SECTION RATINGS

SECTION1 Thyatron

No fixed ratings recorded.

Published maximum ratings, representative operating conditions, and available capacitance/rectifier data reviewed.

6727 is listed in the supplied receiving-tube handbook as a thyatron controlled rectifier. The published heater/filament rating is 6.3 V at 0.6 A. Maximum ratings, representative operating characteristics, and available special-service data were captured from the supplied table.

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	500 mA	ControlledRectifier

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