

ELECTRONIC TUBE REFERENCE

4G280K

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Miniature grid-controlled thyatron for compact switching and control circuits, with operating characteristics and ratings defined in Standard Valves documentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B7G	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

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM CATHODE CURRENT	500 mA
PEAK INVERSE VOLTAGE	1300 V
Ratings and characteristics extracted from 4G280K.pdf.	

4G280K miniature thyatron. Technical characteristics, ratings, and operating information are provided in the approved Standard Valves datasheet.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 v	—
Nominal curren	600 mA	—
Cathode heating time, minimum	10 sec	—
Grid to anode	0.026 pF	—
Inpu	2.4 pF	—
Output	1.6 pF	—
conduction	-100 v	—
before conduction	-100 v	—
Maximum peak cathode curren	500 mA	—
Maximum average cathode curren	100 mA	—
Maximum fault curren	10 A	—
Maximum duration of fault curren	0.1 sec	—
Maximum average screen curren	10 mA	—
Maximum average control grid curren	10 mA	—
cathode	25 v	—
Anode voltage (r.m.s.) 117	400 v	—
Direct screen grid voltage 0	0 v	—
Direct control grid voltage	-6 A	—
—		

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak control grid signal voltage 5	3 v	—
~ 2021 AVERAGE GRID CHARACTERISTICS Vh=	6.3 V	—
< BEFORE ANODE CONDUCTION. Ve	0 V	—
E B	300 V	—
Y_0-02	400 V	—
2D 2 AVERAGE GRID CHARACTERISTICS Vh=	6.3 V	—
HIT Vh	63 V	—
life for heater voltage range of 5.7 to	6.9 Volts	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deionization . {v 125M\735u\;Ed	100 v	—
me, approx Rg; 1000 0	10.1 A	—
Va 125V1 Vg, —	10 V	—
Rg11000Q I	100 mA	—
Critical grid With V,	460 V	—
current, max. Ia av	100 mA	—
Voltage drop, approx	8 v	—

TUBE TINKER

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