TRIODE THYRATRON

XH16-200

Triode, hydrogen-filled thyratron primarily designed for pulse operation at high repetition frequencies, high peak currents and high voltages.

(5C22)

PRELIMINARY DATA

LIMITING VALUES (absolute ratings, not design centre)

It is important that these limits are never exceeded and such variations as mains fluctuations, component tolerances and switching surges must be taken in consideration in arriving at actual valve operating conditions.

Max. peak pulse anode voltage (pulse modulator serv	rice)	-
*Inverse	16	k٧
†Forward	16	kV
Min. anode supply voltage	4.5	kV
Min. peak inverse anode voltage	5.0 of forward vo	% oltage
Max. cathode current		
Peak	325	Α
Average .	200	mΑ
Max. negative control grid voltage	200	٧
Control grid drive limits (measured with grid disconnected).		
Min. peak grid voltage	200	٧
Max. time of rise	0.5	μ s
Min. grid pulse duration	2.0	μ\$
Max. impedance of drive circuit	500	Ω
Max. pulse repetition frequency.	See Note‡	
Heater voltage limits	5.8 to 6.8	٧
Min. valve heating time	300	s
Ambient temperature limits -	-50 to +90	°C

^{*}In pulsed operation, the peak inverse anode voltage should not exceed 5kV during the first $25\mu s$ after the pulse.

[‡]The product of pulse repetition frequency, peak forward anode voltage and peak cathode current must be not greater than $3.2\!\times\!10^9$



[†]For instantaneous starting applications where the anode voltage is applied instantaneously the maximum initial permissible forward voltage is 13.5kV and shall not be obtained in less than 0.04 seconds.

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CHARACTERISTICS

Electrical

6.3 ٧ Heater voltage Heater current at 6.3V Minimum 9.6 Α Maximum 11.6

Mechanical

Type of cooling

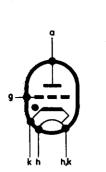
Convection

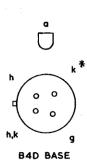
Cooling of the anode lead is permissible but no air blast should be directly applied to the valve envelope.

Mounting position

Any
Clamping at base and/or bulb
only in the region up to 4.25
inches above the top of the base







*Return lead of grid and anode circuits.

