TRIODE THYRATRON

XH3-045

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

(3C45)

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 into consideration in arriving at actual valve operating conditions.

Max. peak pulse anode voltage (pulse modular	tor service).	
*Inverse	3.0	kV
†Forward	3.0	kV
Min. anode supply voltage	800	٧
Min. peak inverse voltage	5.0	%
Maria de la como	of forward anode voltage	
Max. cathode current		
Peak •	35	Α
Average	45	mΑ
Averaging time	1.0	cycle
Max. negative control-grid voltage	200	· v
Control-grid drive limits (measured with grid disconnected)		
Min. peak grid voltage	175	V
Max. time of rise	0.5	μς
Min. grid pulse duration	2.0	μs
Max. impedance of drive circuit	1.5	kΩ
Max. pulse repetition frequency	See Note ‡	
Heater voltage limits	5.7 to 6.6	٧
Min. valve heating time	120	s
Ambient temperature limits	–50 to \pm 90	°C

- *In pulsed operation, the peak inverse anode voltage should not exceed 1.5 kV during the first $25\mu s$ after the pulse.
- †For instantaneous starting applications where the anode voltage is applied instantaneously the maximum initial permissible forward voltage is 3.0 kV and shall not be obtained in less than 0.04 seconds.
- ‡The product of pulse repetition frequency, peak forward anode voltage and peak cathode current must be not greater than $0.3 \times 10^{\circ}$.



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CHARACTERISTICS

Electrical

Heater voltage 6.3 V
Heater current
Minimum 2.0 A

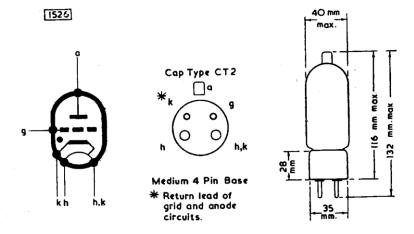
Mechanical

Type of cooling Mounting position

Maximum

Convection Any

Clamping at base and/or bulb only in the region up to 2 inches above the top of the base.



Mullard