Thyratron *Type FX219*

General. The FX219 is a hydrogen filled thyratron primarily designed for pulse operation at high repetition frequencies.

APPROXIMATE DATA

V_h	6·3 (±0·5)	V
I_h	10·6	A
t_{hk}	5	Minutes
$V_{a\ (pk)\ (max)}$	16·0	kV
$PIV_{a\ (max)}$ (a)	16·0	kV
$PIV_{a\ (min)}$	5% of $V_{a\ (pk)}$	
$I_{a\ (pk)\ (max)}$	325	A
$I_{a\ (mean)\ (max)}$	200	mA
PRF	See Note (b)	
$PIV_{gl\ (max)}$	200	V
T_{amb}	−50 to +90°	C
→ $\frac{Si}{St}$ (max)	1,500	A/μ sec
$V_{gl\ (dr)}$ (c)		
(i) $V_{gl\ (pk)\ (min)}$	200	V
(ii) $t_{(rise)\ (max)}$	0·5	μ sec
(iii) $t_{p\ (min)}$ measured at 50 V min. amplitude	2·0	μ sec
(iv) $Z_{gl\ (dr)\ (max)}$	500	Ω

NOTES

(a) In pulse operation, the peak inverse voltage exclusive of a spike of 0·05 μ sec. duration shall not exceed 5 kV during the 25 μ sec. immediately following the pulse.

(b) Pulse repetition frequency, peak voltage and peak current are connected by the relationship.
$$PRF \times I_{pk} \times V_{pk} = 3{\cdot}2 \times 10^8.$$

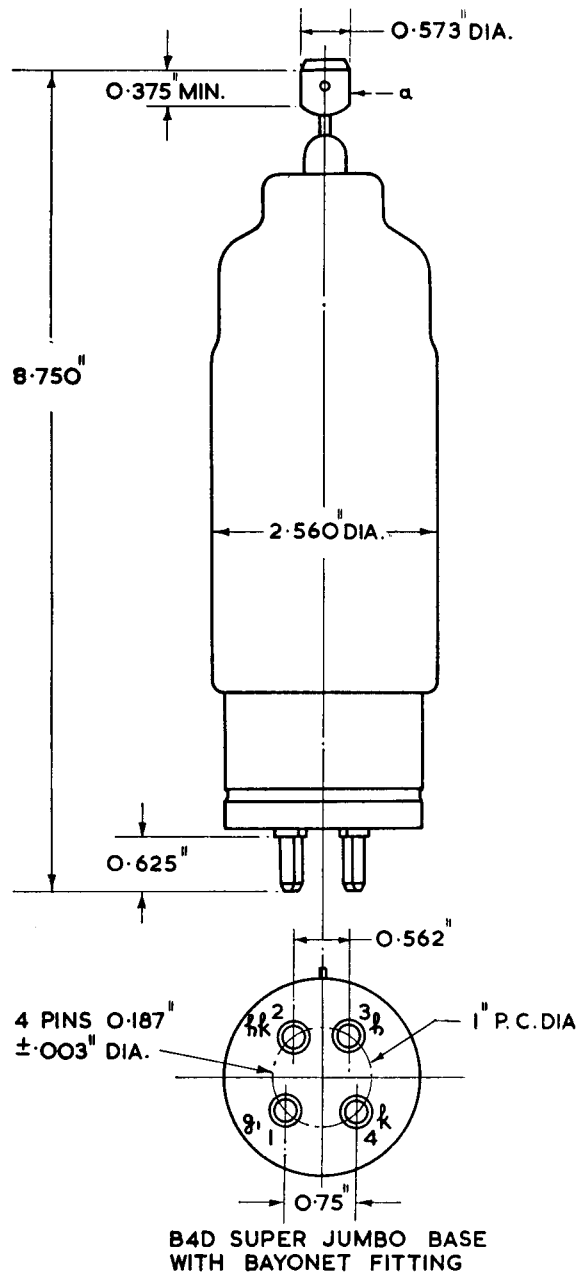
(c) Measured at tube socket with thyratron grid disconnected.

(d) The thyratron must be kept away from stray fields which could ionise the gas.

(e) Air cooling of the bulb is not permitted.

(f) Clamping must be by the base and/or bulb in the area up to 4¼ in. above the top of the base, only.

(g) The thyratron may be mounted in any position.



B4D SUPER JUMBO BASE WITH BAYONET FITTING

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