Rectifier *Type GXU2*

General. The GXU 2 is a xenon filled half-wave rectifier mounted on a 4-pin bayonet base and with characteristics as given below.

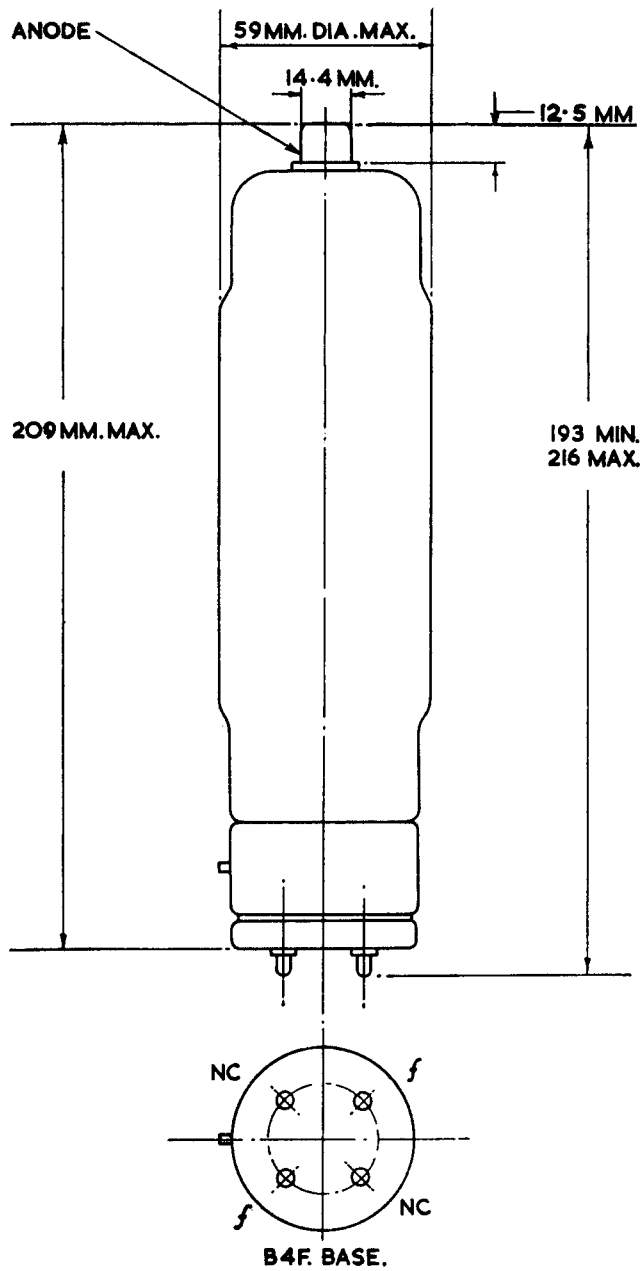
APPROXIMATE DATA

V_f	5·0	V
I_f	7·1	A
$PIV_{(max)}$	10,000	V
$I_{(surge)(pk)(max)}$ (a)	50	A
$I_{a(pk)(max)}$	5·0	A
$I_{a(max)}$ (b)	1·25	A
$f_{(max)}$	150	c/s
t_{hk}	30	secs
T_{amb}	−55/+75	°C
V_{a-f} (I_a=1·25A)	13·0	V

NOTES

(a) Maximum duration 0·1 sec.

(b) Maximum averaging time 15 secs.



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OPERATING CONDITIONS (Full Load)

Circuit	No. of valves	PIV	Full load DC Output (V)	(A)	Applied AC Voltage (V r.m.s.)
Single-phase full-wave	2	10,000	3,200	2·5	3,500 per valve
Single-phase bridge	4	10,000	6,400	2·5	7,100 per valve
Three-phase half-wave	3	10,000	4,800	3·75	4,100 per phase
→ Three-phase full-wave	6	10,000	9,600	3·75	4,100 per phase

Circuit Notes

When quadrature operation is used, the filament voltage (pin 4 with respect to pin 2) should be crossing zero from positive towards negative when the anode voltage is at the peak of the positive half cycle.

When quadrature operation is not practicable filament pin 4 should be positive when the anode is positive.

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