AEI Mercury Vapour Thyratron 21N12

GENERAL

The 21N12 is a convection cooled mercury vapour thyratron. It has an indirectly heated oxide coated cathode and is intended for use in power supplies and welding equipment, etc.

RATINGS—Absolute values

Heater voltage	V_h	5·0 ± 5%	V
†Heater current (nominal)	I_h	5·0	A
Maximum peak forward anode voltage		10	kV
Maximum peak inverse anode voltage	P.I.V.$_{max}$	10	kV
Maximum surge peak inverse voltage		20	kV
Maximum anode voltage drop		18	V
Maximum mean cathode current (max averaging 15 sec)	$I_{k(av)max}$	3·0	A
Maximum peak cathode current	$i_{k(pk)max}$	25	A
Maximum surge cathode current (0·1 sec)		250	A
Maximum grid resistance	$R_{g(max)}$	100	kΩ
Maximum supply frequency		150	c/s
Condensed mercury temperature limits	T_{Hg}	35 to 70	°C

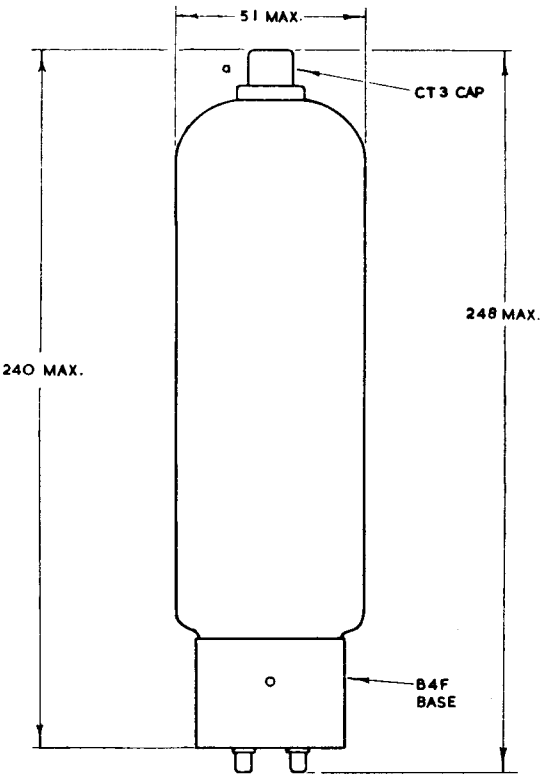
† The heater must be switched on for a minimum of three minutes before the anode voltage is applied.

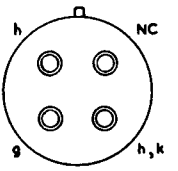
MOUNTING POSITION—Vertical, base down.

CHARACTERISTICS

Critical grid current (at V_a = 6kV)		<10	μA
Control ratio (nominal)		200 : 1	
Ionisation time (approx)	t_i	10	μs
De-ionisation time (approx)	t_d	1,000	μs

Associated Electrical Industries Limited
Radio Components Department
Tel: GERrard 9797

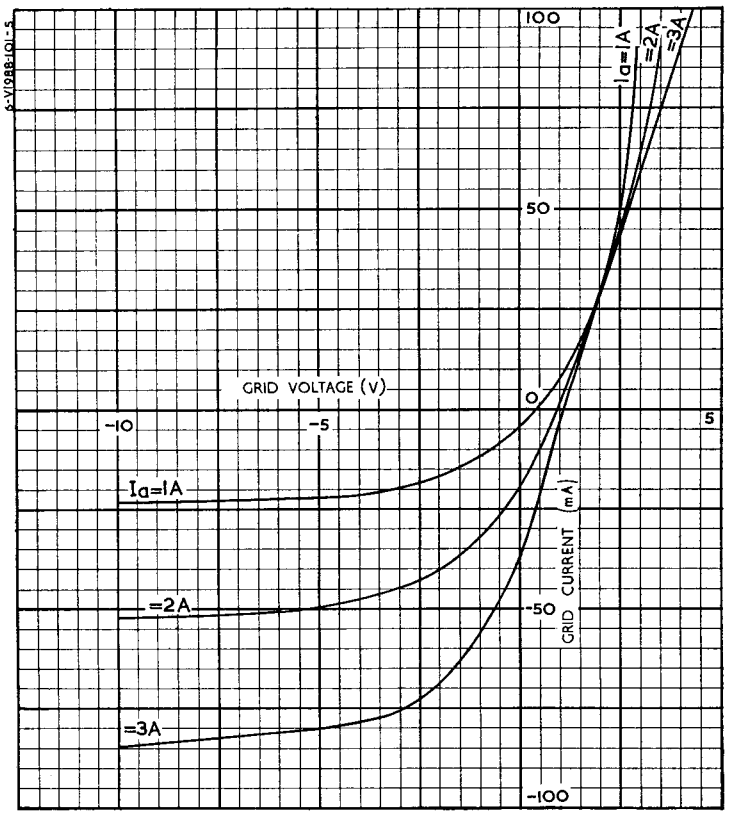




VIEW OF FREE END.

All dimensions in millimetres.

CHARACTERISTIC CURVES : I_g/V_g



Associated Electrical Industries Limited
Radio Components Department
Tel : GERrard 9797

CHARACTERISTIC CURVES : T_{Hg}/t