

SUBMINIATURE R.F. PENTODE

EF730

R.F. pentode with short suppressor-grid base.

HEATER

V_h	6.3	V
I_h	150	mA

MOUNTING POSITION

Any

Note—Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1.5mm from the seal.

COOLING

In operation this valve may become very hot and to obtain satisfactory life it should be adequately cooled. A suitable method is to mount the valve in a metal clip which conducts the heat away to a suitable heat sink.

CAPACITANCES

	Shielded	Unshielded	
C_{a-g1}	<0.02	<0.034	pF
C_{a-g3}	<1.1	<1.1	pF
C_{g1-g3}	<0.15	<0.17	pF
$C_{in(g1)}$	4.0	4.0	pF
$C_{in(g3)}$	3.7	3.7	pF
C_{out}	3.4	2.1	pF

CHARACTERISTICS

V_a	100	V
V_{g3}	0	V
V_{g2}	100	V
V_{g1}	-1.4	V
I_a	5.3	mA
I_{g2}	4.1	mA
$g_{m(g1-a)}$	3.2	mA/V
$g_{m(g3-a)}$	500	$\mu A/V$
r_a	110	$k\Omega$
$V_{g1} (I_a = 10\mu A)$	-7.5	V
$V_{g3} (I_a = 10\mu A)$	-8.0	V

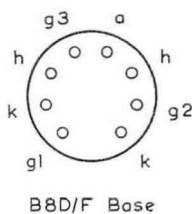
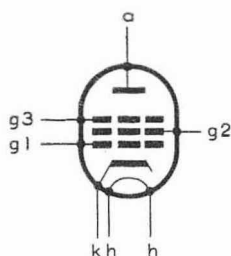
LIMITING VALUES (absolute ratings)

$V_{a(b)} \text{ max.}$	330	V
$V_a \text{ max.}$	165	V
$p_a \text{ max.}$	1.1	W
$+V_{g3} \text{ max.}$	30	V
$V_{g2(b)} \text{ max.}$	310	V
$V_{g2} \text{ max.}$	155	V
$-V_{g1} \text{ max.}$	55	V
$p_{g2} \text{ max.}$	700	mW
$I_a \text{ max.}$	11	mA
$I_{g2} \text{ max.}$	7.0	mA
$V_{h-k} \text{ max.}$	200	V

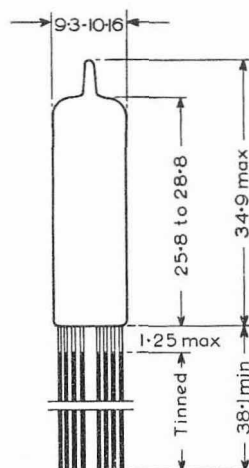


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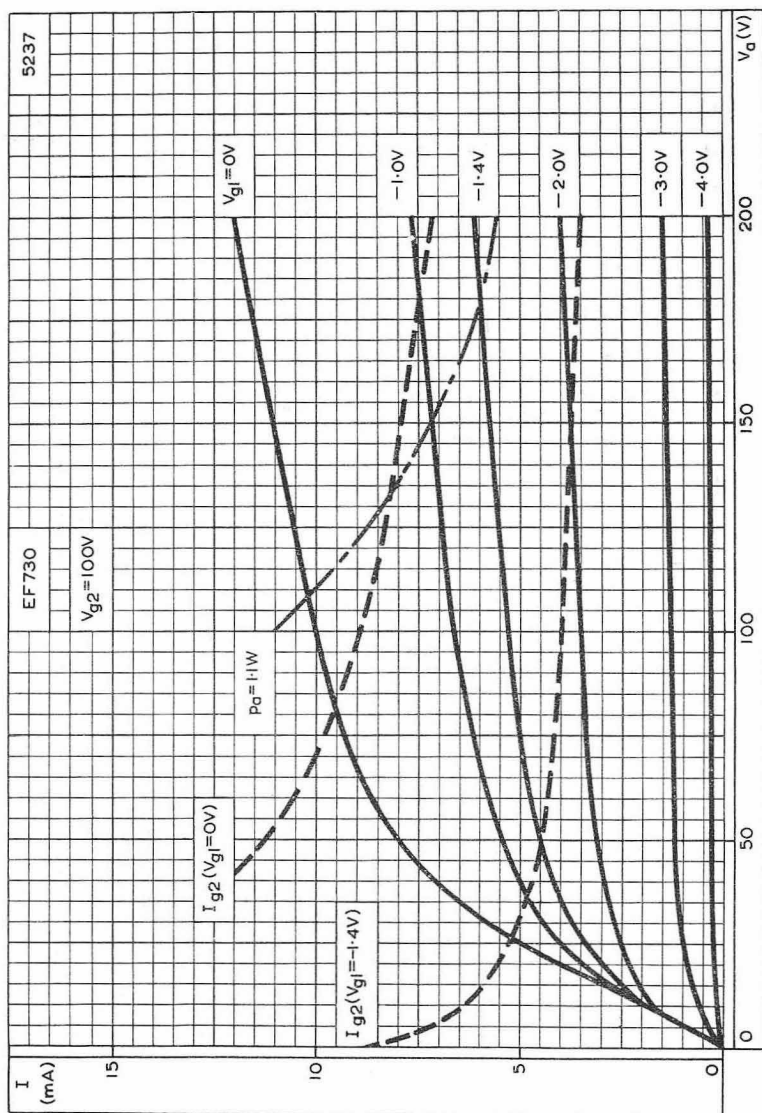


B8D/F Base

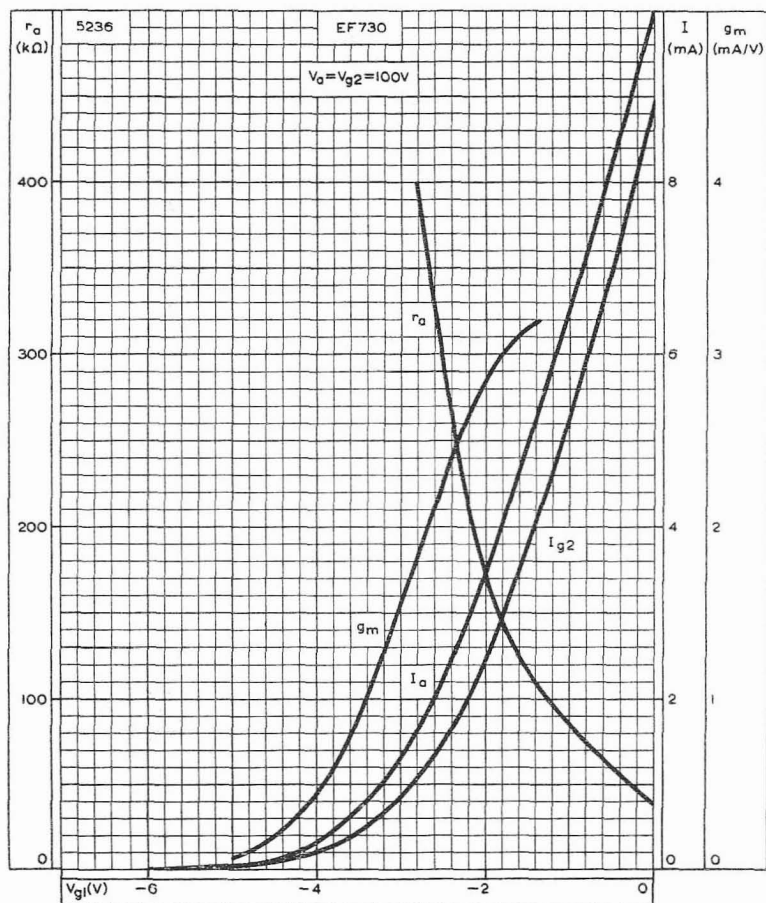


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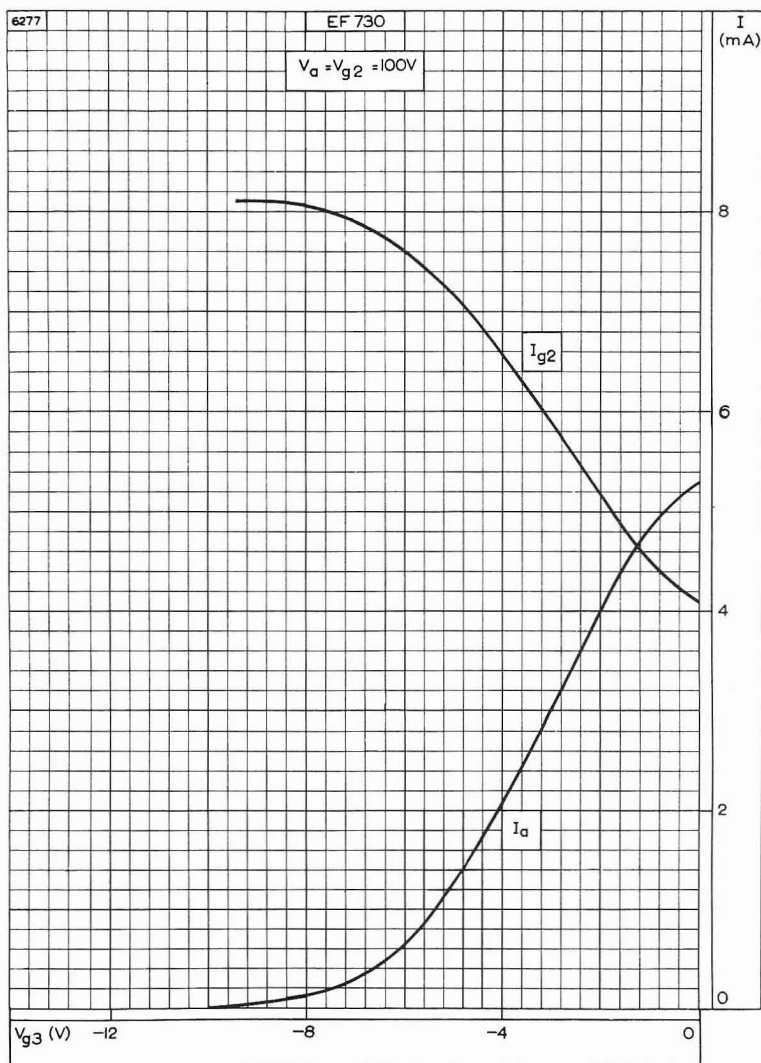
All dimensions in mm



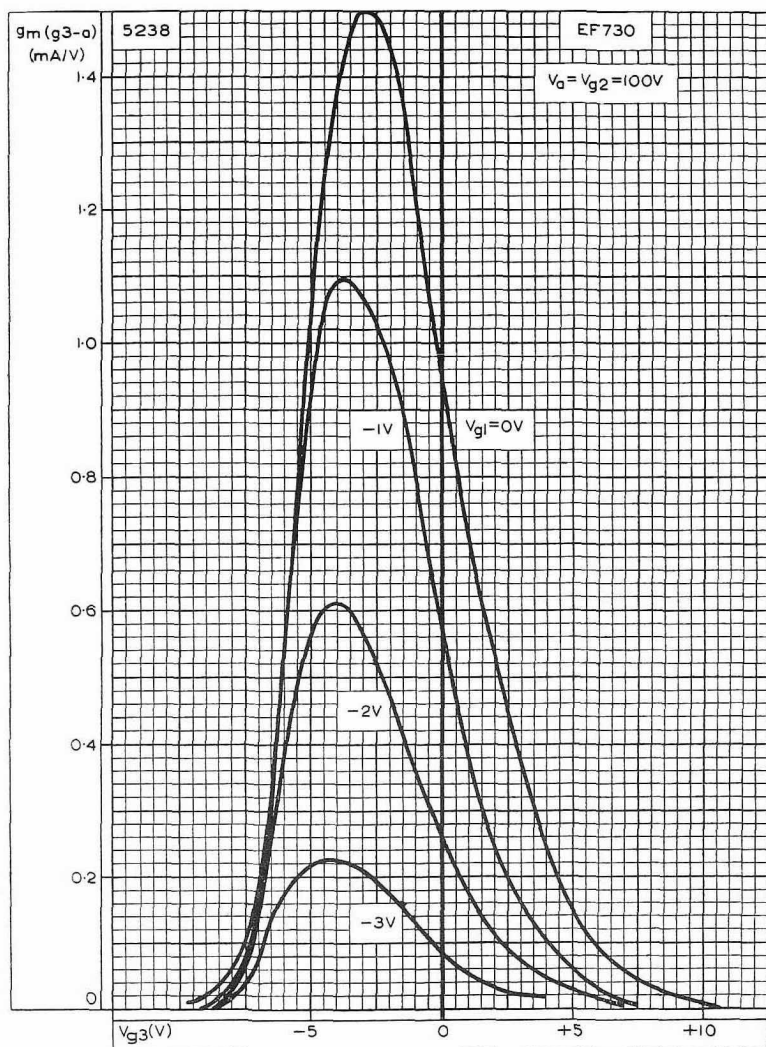
ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER



ANODE AND SCREEN-GRID CURRENTS, MUTUAL CONDUCTANCE AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE



ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST
SUPPRESSOR-GRID VOLTAGE



MUTUAL CONDUCTANCE (g_{3-a}) PLOTTED AGAINST SUPPRESSOR-GRID VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER

