

OUTPUT PENTODE

Output pentode primarily intended for use as line time base output valve in television receivers with series connected heaters.

PL38 PL38M

HEATER

Suitable for series operation, a.c. or d.c.

V_h	300	mA
V_{h1}	30	V

CAPACITANCES

	PL38M	PL38	
C_{in}	18	18	pF
C_{out}	9.5	6.5	pF
C_{a-g1}	< 1.0	< 1.2	pF

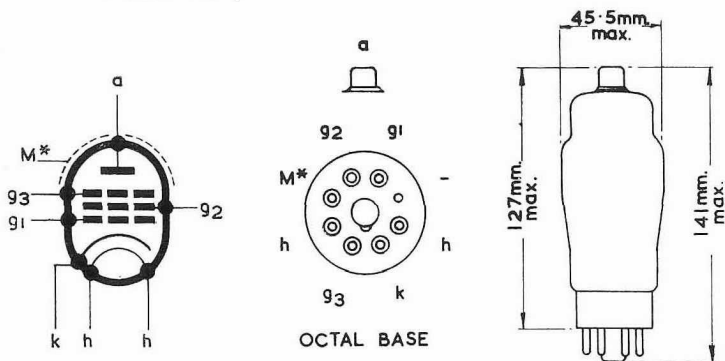
CHARACTERISTICS

V_a	200	V
V_{g2}	200	V
V_{g1}	-5.5	V
I_a	75	mA
I_{g2}	9.0	mA
g_m	13.5	mA/V
r_a	20	k Ω
μ_{g1-g2}	16.5	

LIMITING VALUES

$V_{a(b)}$ max.	1.2	kV
V_a max.	800	V
$V_{a(pk)}$ max.	8.0	kV
$V_{g2(b)}$ max.	800	V
V_{g2} max.	400	V
p_a max.	25	W
p_{g2} max.	8.0	W
I_k max.	200	mA
V_{g1} max. ($I_{g1} = +0.3 \mu A$)	-1.3	V
* R_{g1-k} max. ($p_a < 25W$)	500	k Ω
* R_{g1-k} max. ($p_a < 9W$)	800	k Ω
V_{h-k} max.	200	V
R_{h-k} max.	20	k Ω

*For self bias operation.

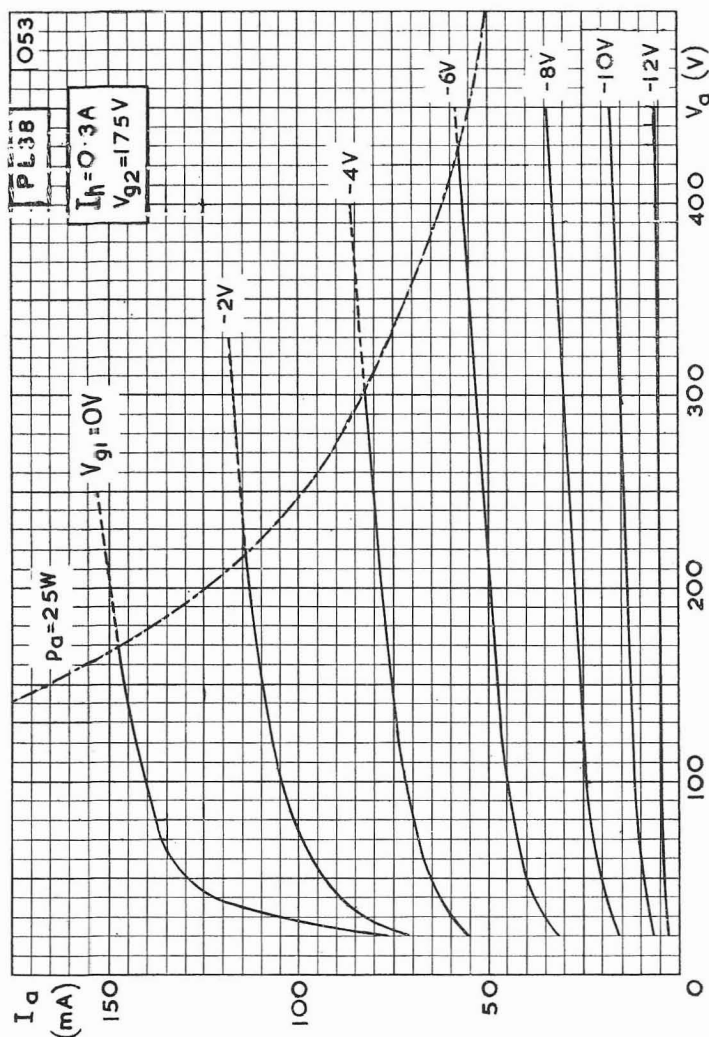


* External metallising on type PL38M only.

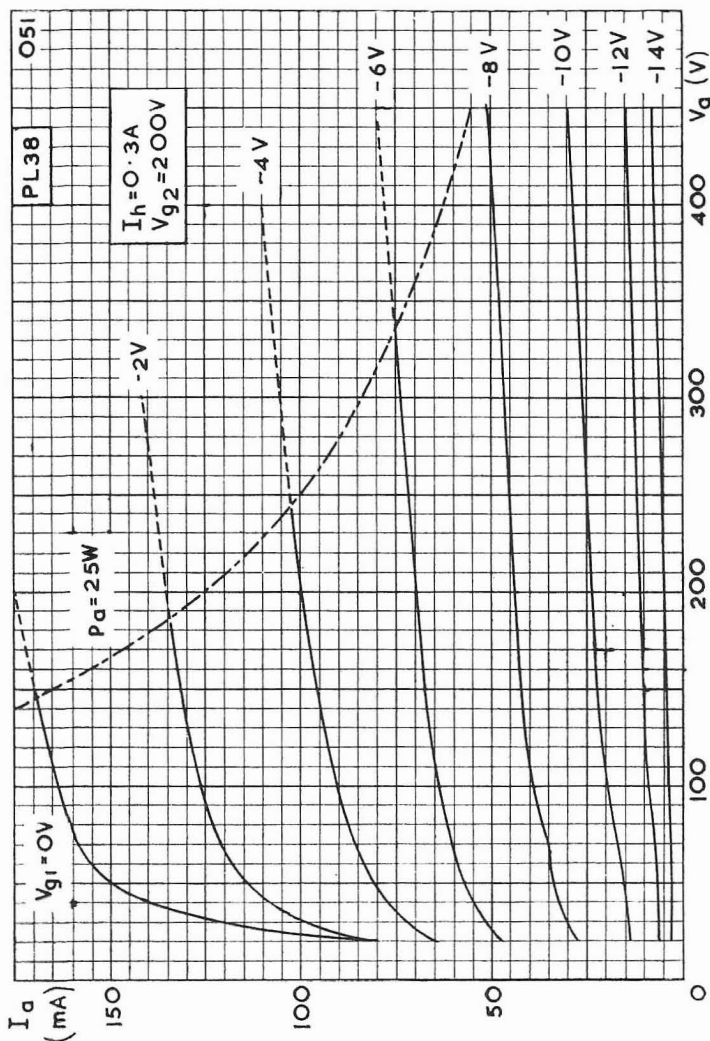
732

PL38 PL38M

OUTPUT PENTODE



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER AT $V_{g2} = -175V$

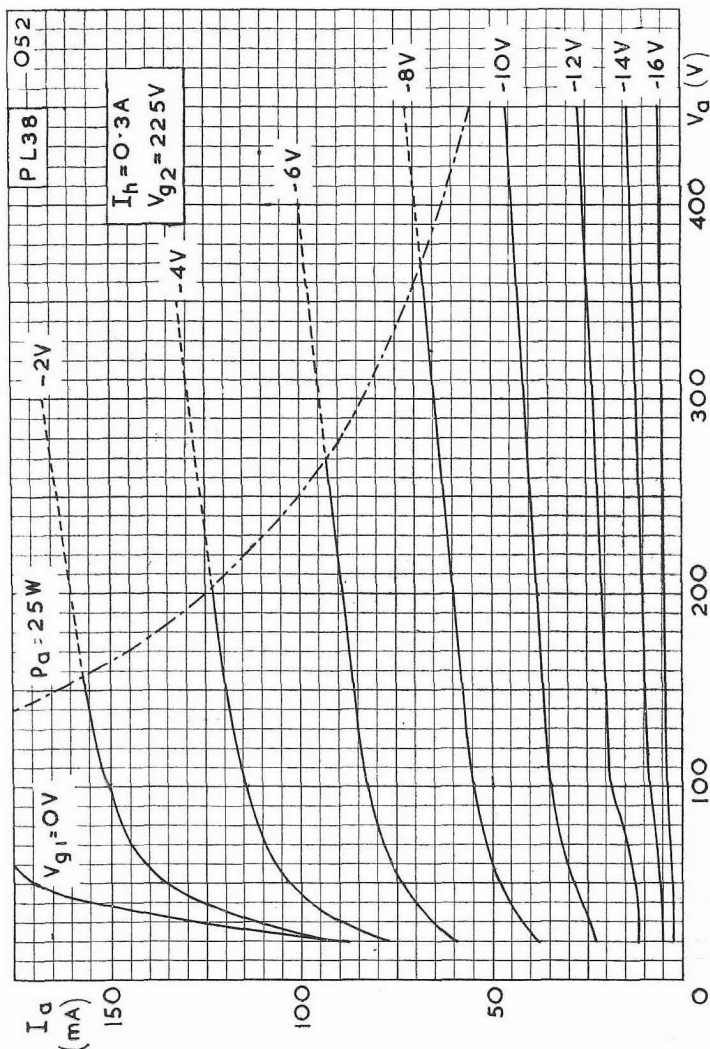


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER AT $V_{g2} = 200V$

PL38

PL38M

OUTPUT PENTODE



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER AT $V_{g2} = 225$ V