

VIDEO OUTPUT PENTODE

PL83

Video output pentode for use in television receivers with series connected heaters. It is particularly suitable for use in projection television receivers or with high definition television systems.

HEATER

Suitable for series operation, A.C. or D.C.

I_h	0.3	A
V_h	15	V

CAPACITANCES

C_{in}	10.4	$\mu\mu F$
C_{out}	6.6	$\mu\mu F$
C_{a-g1}	<0.06	$\mu\mu F$
C_{g1-h}	<0.15	$\mu\mu F$

CHARACTERISTICS

V_a	170	200	V
V_{g2}	170	200	V
V_{g3}	0	0	V
I_a	36	36	mA
I_{g2}	5	5	mA
V_{g1}	-2.3	-3.5	V
g_m	10	10	mA/V
r_a	0.1	0.1	M Ω
μ_{g1-g2}	24	24	

TYPICAL OPERATING CONDITIONS FOR DRIVING A CATHODE RAY TUBE WITH CATHODE INJECTION

V_b	170	V
V_{g2}	170	V
V_{g3}	0	V
I_a	4	mA
I_{g2}	0.25	mA
V_{g1}	-6.7	V
R_a	2,200	Ω
V_{out} (pk)	>70	V

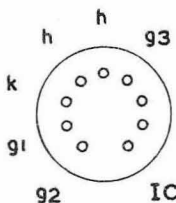
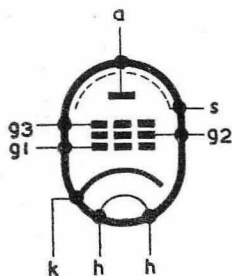
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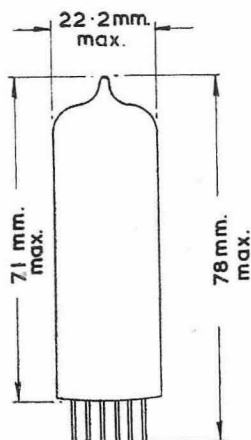
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LIMITING VALUES

V_a (b) max.	550	V
V_a max.	250	V
p_a max.	9	W
V_{g2} (b) max.	550	V
V_{g2} max.	250	V
p_{g2} max.	2	W
I_k max.	70	mA
V_{g1} max. ($I_{g1} = +0.3 \mu A$)	-1.3	V
R_{g1-k} max. (self bias)	1.0	M Ω
R_{g1-k} max. (fixed bias)	0.5	M Ω
V_{h-k} max.	150	V
R_{h-k} max.	20	K Ω



B9A
Noval Base

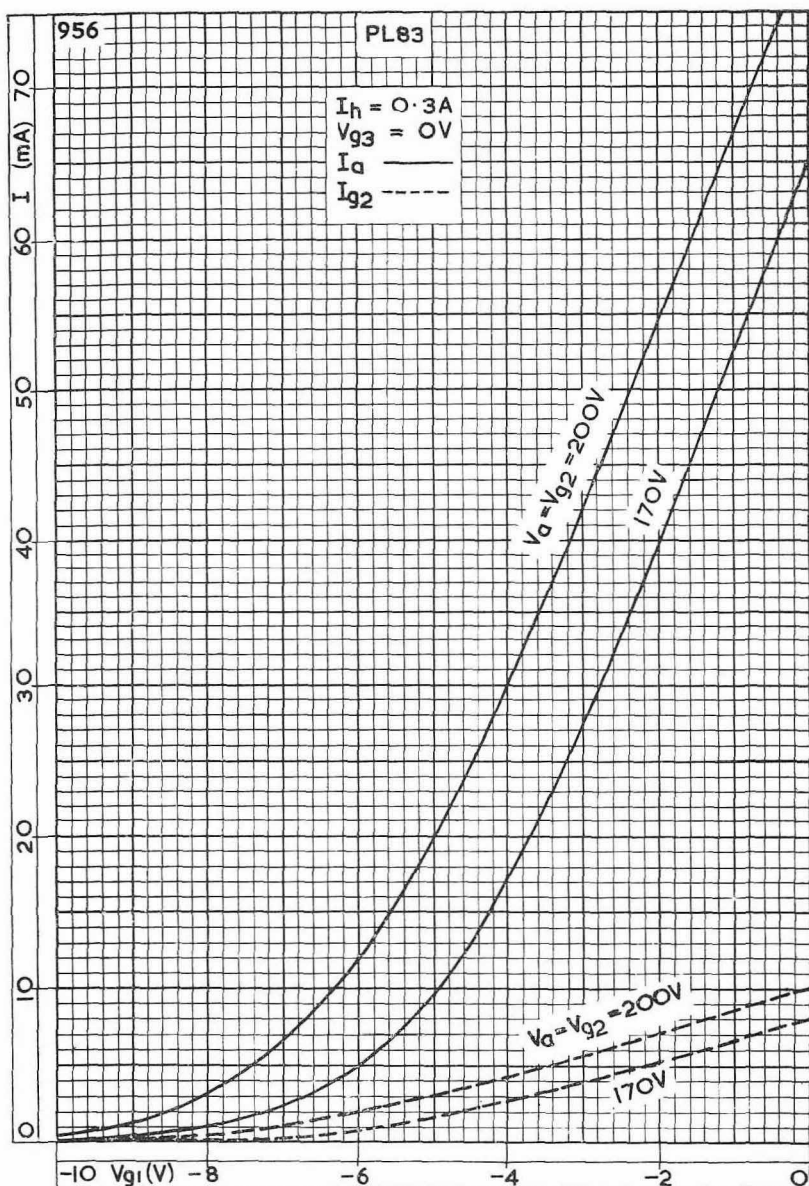


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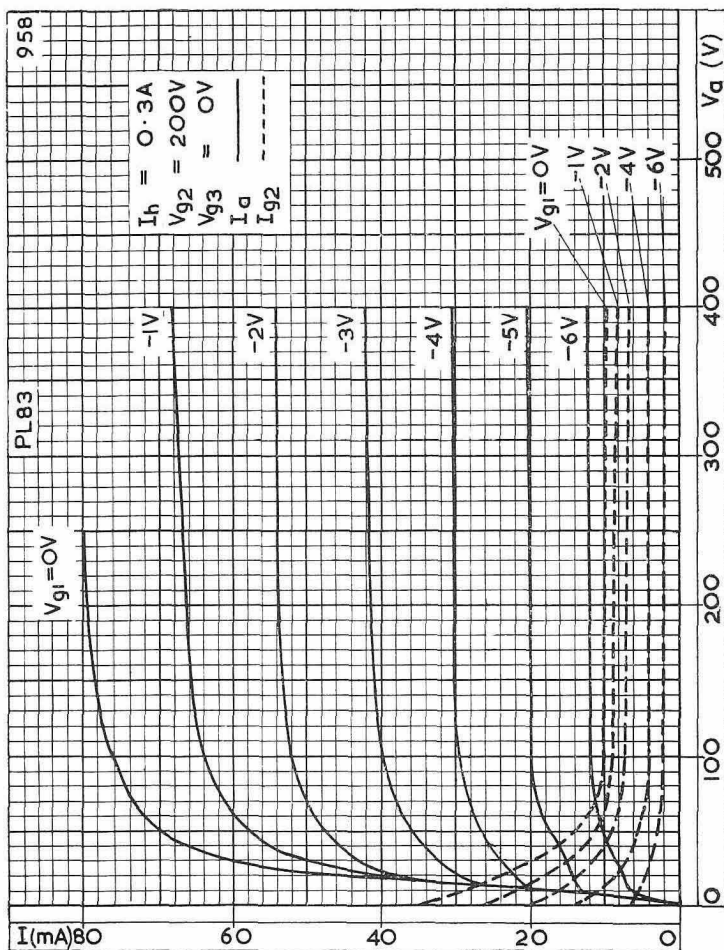


ANODE CURRENT AND SCREEN-GRID CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE

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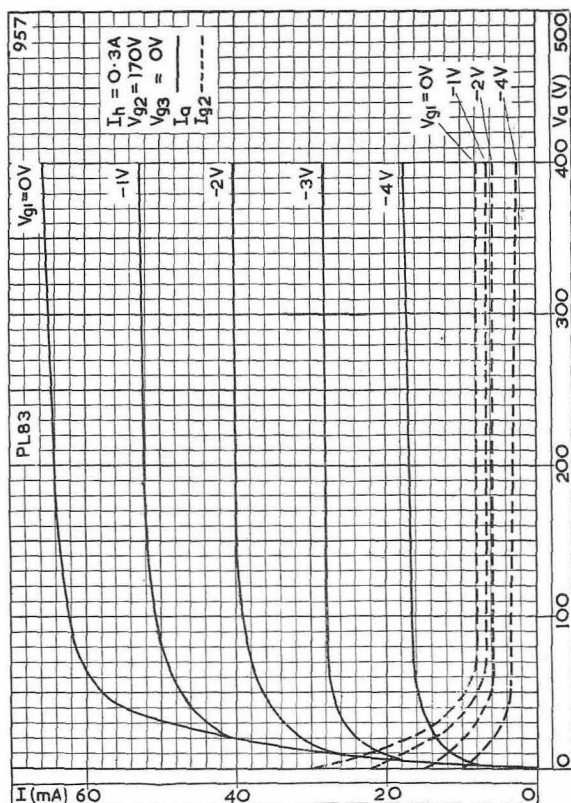


ANODE CURRENT AND SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE, WITH SCREEN-GRID VOLTAGE AT 200V

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ANODE CURRENT AND SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE, WITH SCREEN-GRID VOLTAGE AT 170V

