



**ECC81/12AT7**

ECC81 is R.F. Double Triode



**Quick reference data**

- Anode current  $I_a=10\text{mA}$
- Transconductance  $S=5,5\text{mA/V}$
- Amplification  $\mu=60$

**Heating**

Heating is indirect by AC or DC, with serial or parallel supply. Please note that, in case of serial supply, a current limiting device must be inserted in the heater circuit for limiting the current when switching on.

Heater voltage	$V_f$	6,3	12	(V)
Heater current	$I_f$	300	150	(mA)
pins		9-(4+5)	4-5	

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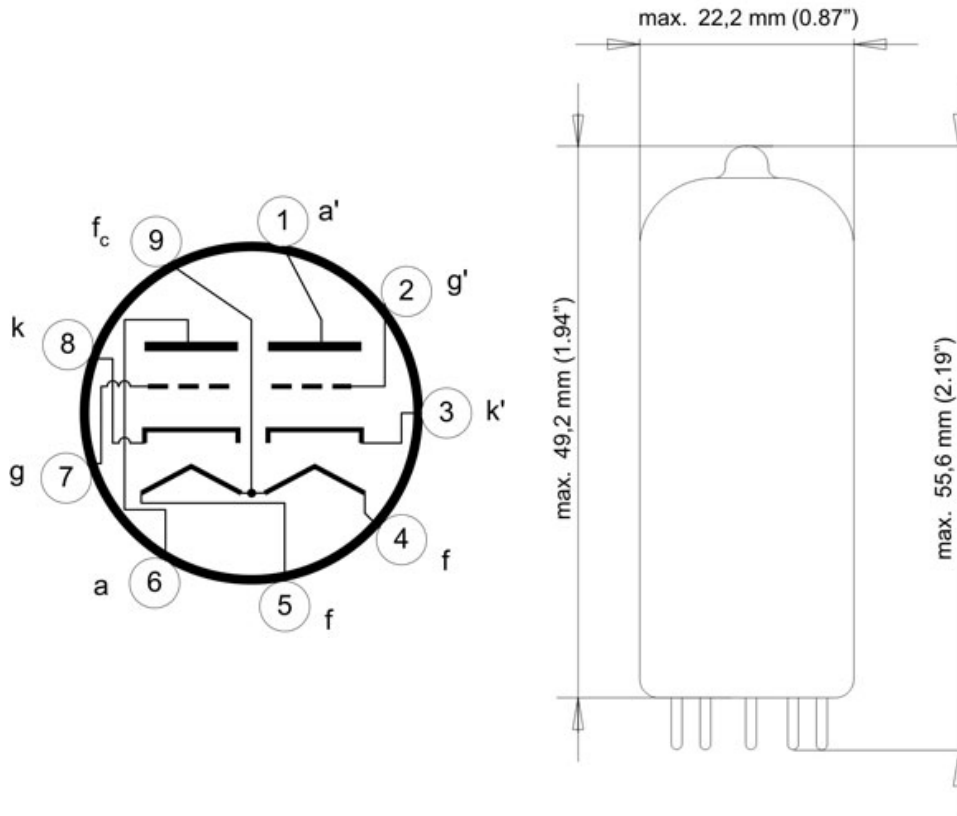
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**Dimensions and connections**

Base: Noval



**Typical characteristics and operating conditions**

Anode voltage	$V_a$	100	170	200	250	(V)
Grid voltage	$V_g$	-1,0	-1,0	-1,0	-2,0	(V)
Anode current	$I_a$	3,0	8,5	11,5	10	(mA)
Transconductance	S	3,75	5,9	6,7	5,5	(mA/V)
Amplification	$\mu$	62	66	70	60	
Internal resistance	$R_i$	16,5	11	10,5	11	(k $\Omega$ )

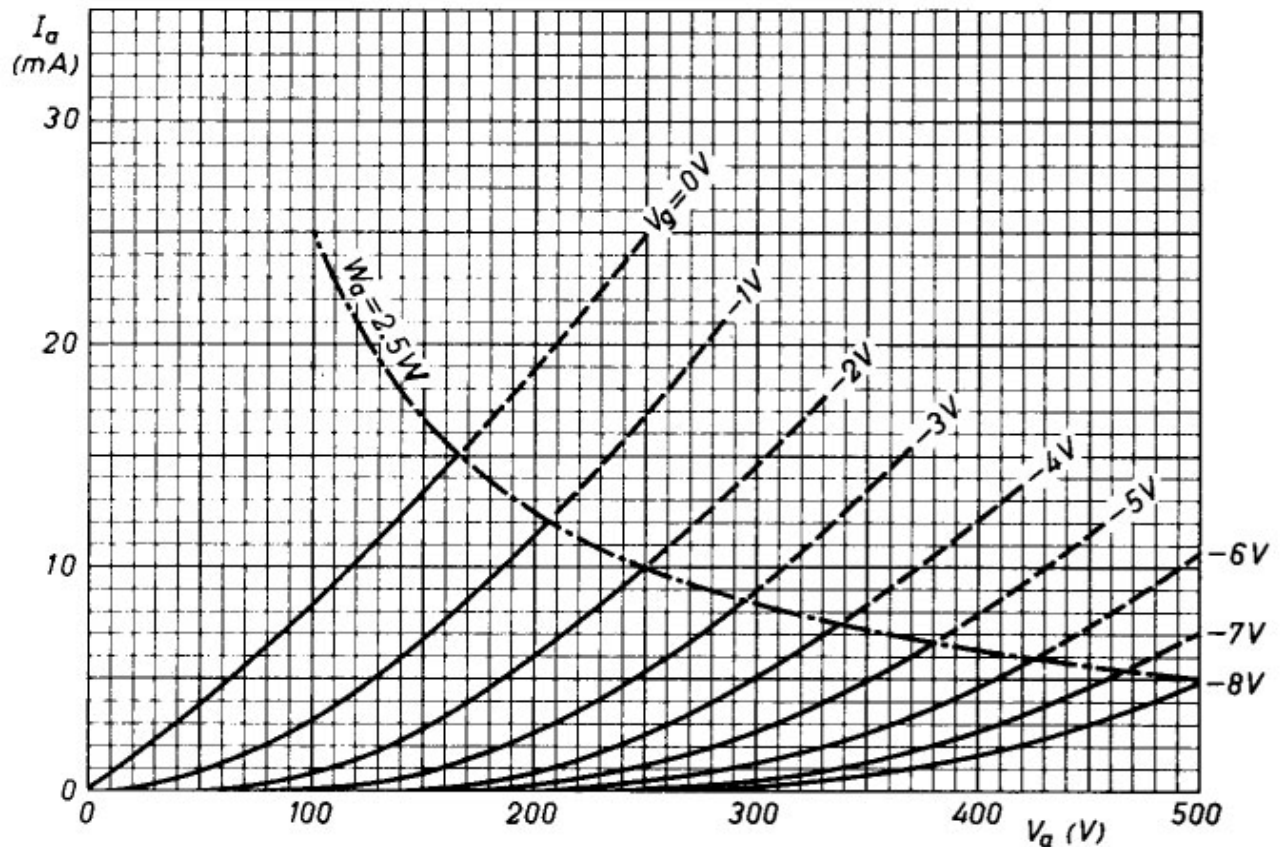
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**Limiting - maximal values (design center rating system)**

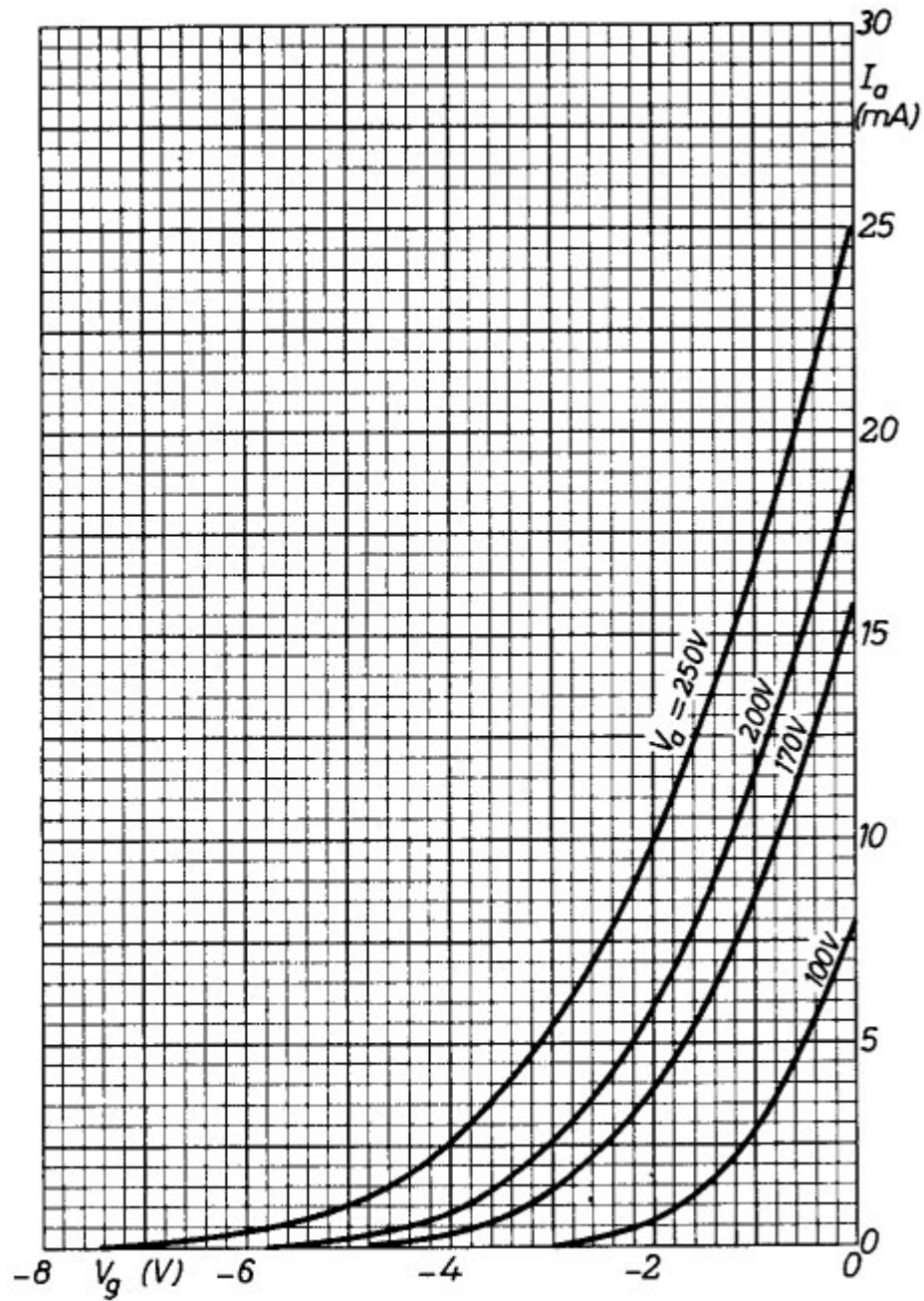
Anode voltage	$V_{ao}$	550	(V)
	$V_a$	300	
Anode dissipation	$W_a$	2,5	(W)
Cathode current	$I_k$	15	(mA)
Grid voltage	$V_g$	-50	(V)
Grid resistor (automatic bias)	$R_g$	1	(M $\Omega$ )
Cathode to heater voltage	$V_{kf}$	90	(V)



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