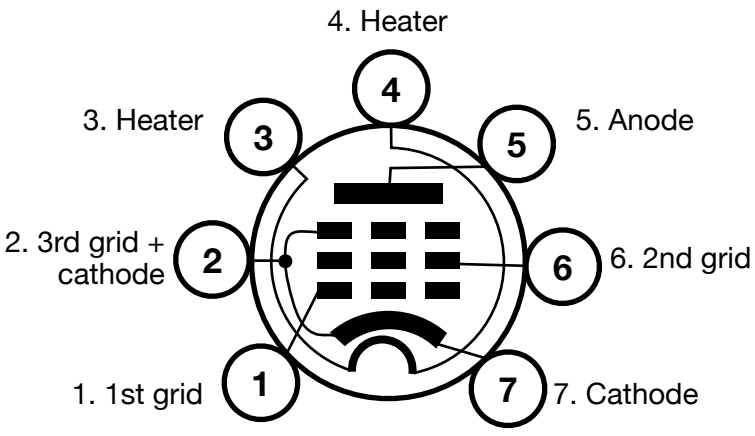
High Frequency Pentode - 6J1

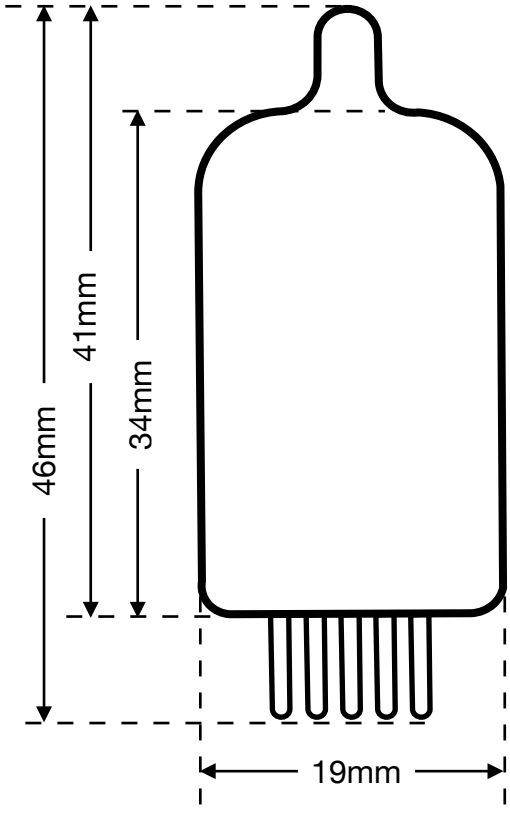
Electrical characteristics

Filament voltage	6.3V
Filament current	170 ±20 mA
Anode voltage	120V
2nd grid voltage	120V
Cathode grid bias resistance	200Ω
Anode current	$5.35^{+3.85}_{-2.75}$ mA
2nd grid current	≤ 3.2mA
Transconductance	5.1 ±1.4mA/V
Internal resistance	0.1 - 1.1MΩ
Input resistance	12 - 25 KΩ
Input capacitance	4.3 ±4.5 pF
Output capacitance	2.35 ±0.25 pF
Transition capacitance	≤ 0.2 pF
Cathode - anode capacitance	≤ 4.6 pF

Illustration of the 6j1 tube

Connection graph - Base B7G

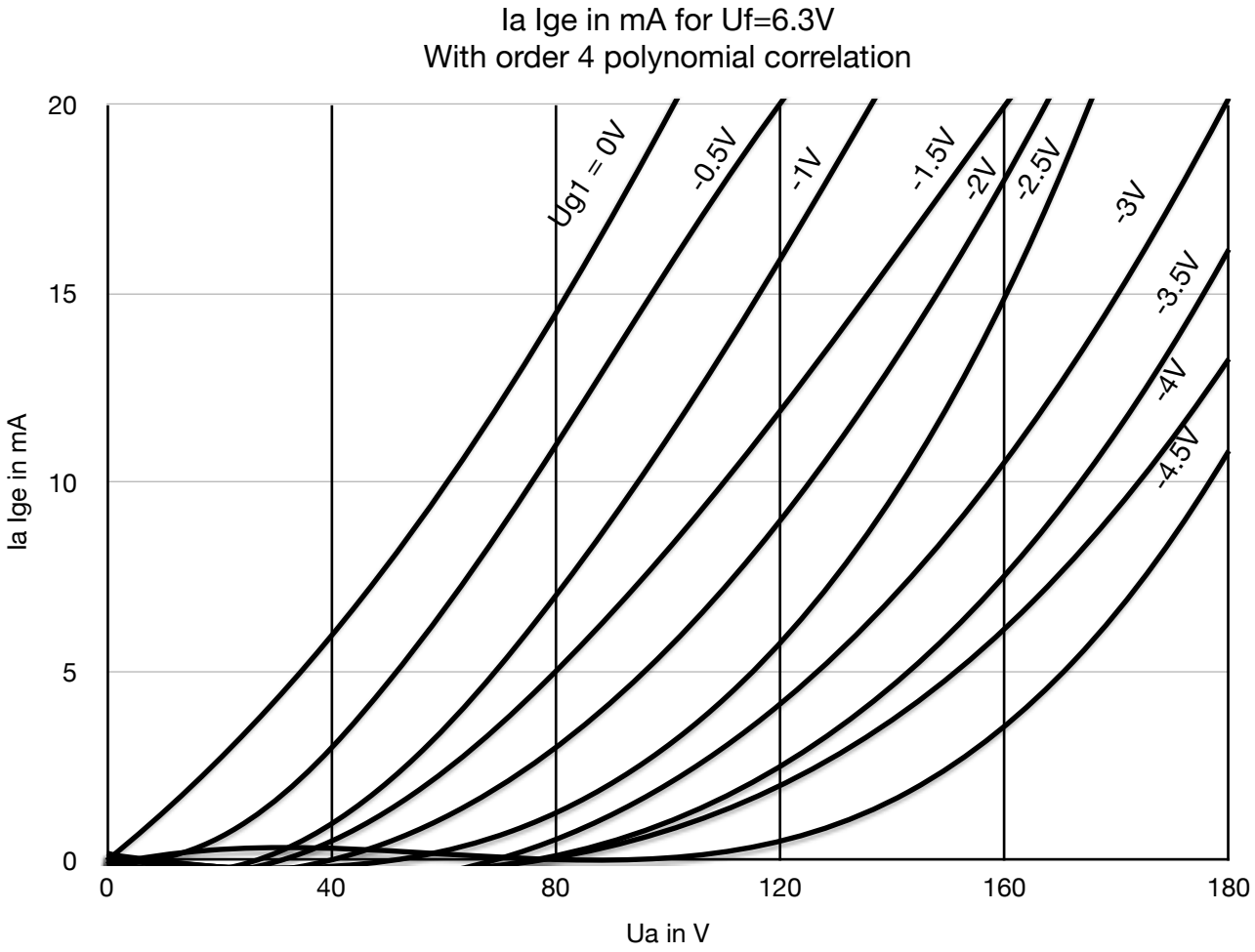




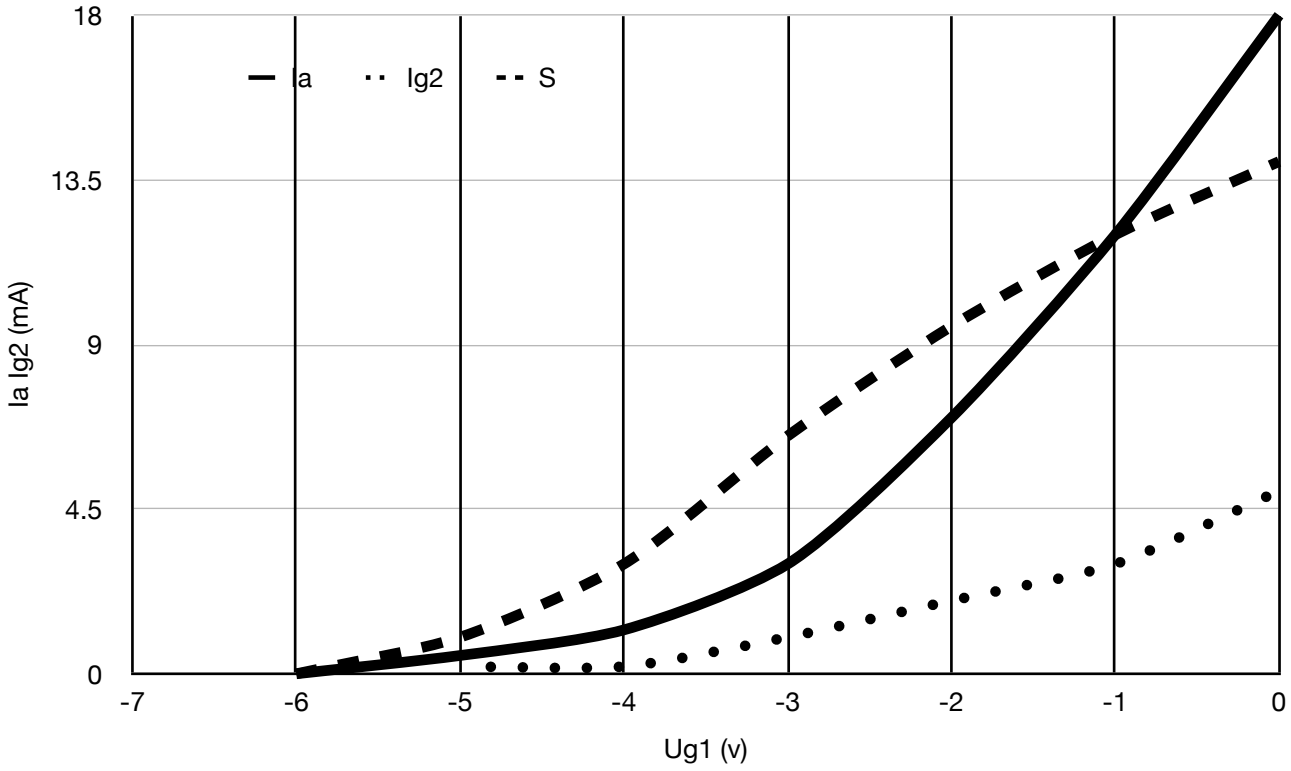
Mechanical characteristics

Maximal Ratings

Label	Minimum	Maximum	Unit
Filament voltage	5.7	6.9	V
Anode voltage	-	200	V
2nd grid voltage	-	150	V
Cathode current	-	20	mA
Anode power loss	-	1.8	W
2nd grid power loss	-	0.55	W
Cathode - filament voltage	-	±120	V
1st grid resistance	-	1	MΩ



Uf = 6.3V, Ua = 120V, Ug2 = 120V



Uf = 6.3, Ug2 = 120V