

General Characteristics (Stated in conventional tube terminology)

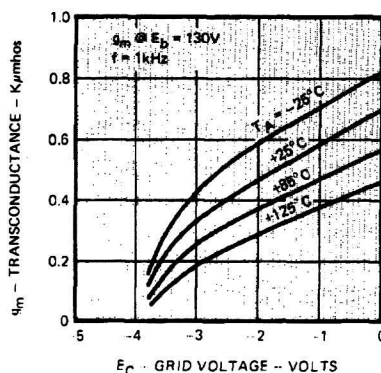
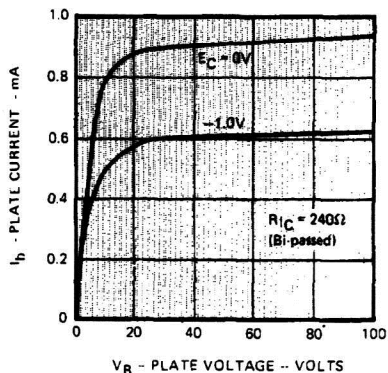
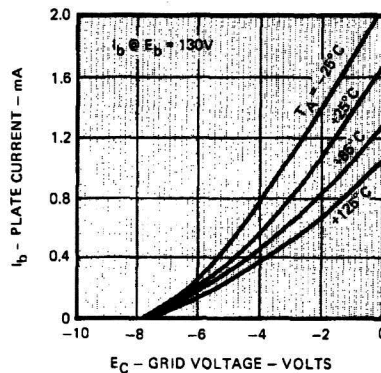
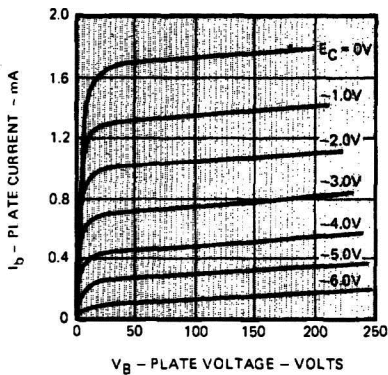
Heater Voltage	N/C (Open)
Heater Current	N/C
Grid-to-Plate Capacitance (Each unit)	3.5 μ F
Grid-to-Cathode Capacitance (Each unit)	2 μ F
Plate-to-Plate Capacitance	0.1 μ F
Heater-to-Cathode Capacitance	N/C

Operating Conditions and Characteristics (At 25°C unless otherwise specified)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNITS
Plate Supply Voltage	E_b		130	250	Volts
Grid No. 1 Voltage	E_{C1}	-0.3	-2.5	-2.7	Volts
Peak A-F Grid-to-Grid Voltage	E_{C1C2}			20	Volts
Plate Resistance	r_p	50	250		Kilohms
Transconductance	g_m	300	750	1000	Micromhos
Amplification Factor	μ	150	188		
Grid Voltage for Plate Current of 10 μ A			-7.0	-10	Volts
Peak Negative Grid Voltage	E_C	-150	-300		Volts
Plate Current	I_b	0.2	0.8	0.9	Milliamps
Grid Current	I_C		2.0	100	Nanoamps
Useful Frequency Limit	f_T		30		Megahertz
Tube Operating Temperature	O_T	-55	+75	+125	°Centigrade

NOTE: In most cases, the more pentode type characteristics will enhance present circuit performance. In a few instances, the user might need a selected range.

Average Plate Characteristics (Each Unit)



NOTE: In series filament circuits, all tubes must be replaced by solid state replacements or appropriate resistor connected externally between pins 3 and 4. Some applications may require modified TS12A7. Consult Teledyne Semiconductor for application information.