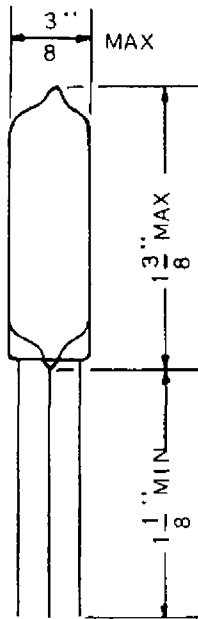




THE VICTOREEN INSTRUMENT CO. 5806 HOUGH AVE., CLEVELAND, O.

JANUARY, 1949

DATA SHEET 1



5803

ELECTROMETER TRIODE

The 5803 is a subminiature triode designed to replace the VX-32B for radiation measuring instrumentation.

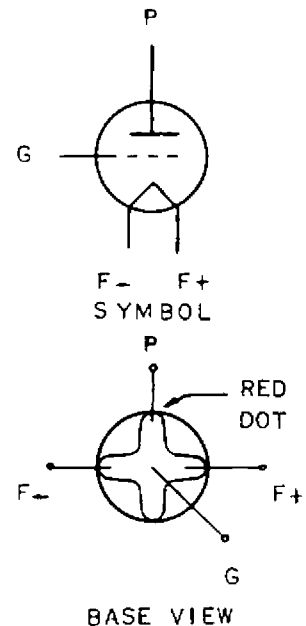
Lower plate voltage operation results in smaller grid currents.

Higher transconductance makes increased sensitivities practical in d.c. amplifiers.

Closer tolerances in plate current result in greater uniformity.

Improved filament characteristics provide longer life or reduced weight to portable equipment.

Low microphonic design features introduced in the VX-32B have been retained in the 5803.



CHARACTERISTICS

		MIN.	NOM	MAX.	
FILAMENT VOLTAGE	E_f	1.1	1.25	1.5	V
FILAMENT CURRENT	I_f	-	10	-	MA
FILAMENT RESISTANCE	R_f	112	125	137	OHM
TOTAL CATHODE CURRENT	I_k	-	-	500	μ A
LEAKAGE RESISTANCE (Grid to all other elements)	R_G	-	10^{14}	-	OHM
PLATE CURRENT ($E_f = 1.25$ V $E_b = 7.5$ V. $E_c = -1.7$ V)	I_b	60	-	120	μ A
TRANSCONDUCTANCE ($I_b = 100 \mu$ A)	G_m	100	-	-	μ MHO
AMPLIFICATION	μ	1.8	2.0	2.2	