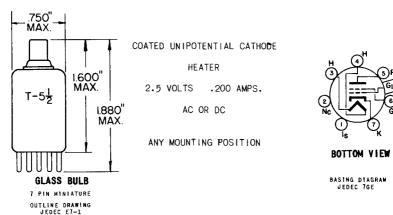
TUNG-SOL -

ELECTROMETER TETRODE

MINIATURE TYPE



THE 7851 IS A SCREEN GRID TETRODE ELECTROMETER TUBE. ITS HIGH TRIODE MU, WHICH DISTINGUISHES IT FROM CONVENTIONAL ELECTROMETER TUBES, MAKES IT PARTICULARLY USEFUL AS AN EXTREMELY HIGH GAIN CURRENT AMPLIFIER IN APPLICATIONS. WHEREIN THE INPUT SIGNAL IS IN THE ORDER OF MICRO-MICRO-AMPLERES. CAREFUL SHIELDING FROM LIGHT AS WELL AS ELECTROMAGNETIC FIELDS MUST BE OBSERVED, AS WITH ALL ELECTROMETER TUBES.

DIRECT INTERELECTRIC CAPACITANCES

(APPROX.)
WITHOUT EXTERNAL SHIELD

GRID TO PLATE: G1 TO P	0.19	рf
INPUT: G1 TO (H+K+G2,S)	2.6	рf
OUTPUT: P TO (H+K+G2,S)	1.8	pf

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

INTERTRETED ACCORDING TO DESIGN CENTER SISTER		
HEATER VOLTAGE	2.5	VOLTS
MAXIMUM PLATE VOLTAGE	1.2	VOLTS
MAX!MUM GR!D #2 VOLTAGE	12	VOLTS
MAXIMUM NEGATIVE GRID #1 VOLTAGE	-12	VOLTS
MAXIMUM POSITIVE GRID #1 VOLTAGE	0	VOLTS
MAXIMUM GRID #1 CURRENT -(SEE BELOW)		
MAXIMUM HEATER-CATHODE VOLTAGE	±16	. VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

PLATE SUPPLY VOLTAGE	11.0	VOLTS
GRID #2 VOLTAGE	11.0	VOLTS
GRID #1 VOLTAGE APPLIED	-2.2	VOLTS
PLATE CURRENT	16	µAMPS
TRANSCONDUCTANCE	40	μ м нοs
PLATE RESISTANCE - APPROX.	1.7	MEGOHMS
TRIODE AMPLIFICATION FACTOR	5	
GRID CURRENT — MAXIMUM	10 x 10 ⁻¹³	AMPS.

A_{REFER} TO EIA STANDARD RS-239.

WITH HIGH INPUT IMPEDANCES, CHARACTERISTICS VARY GREATLY WITH HEATER VOLTAGE; THE DEGREE OF STABILITY OBTAINED DEPENDS LARGELY UPON THE DEGREE OF REGULATION OF HEATER VOLTAGE OR CURRENT.

