



THE VICTOREEN INSTRUMENT CO.

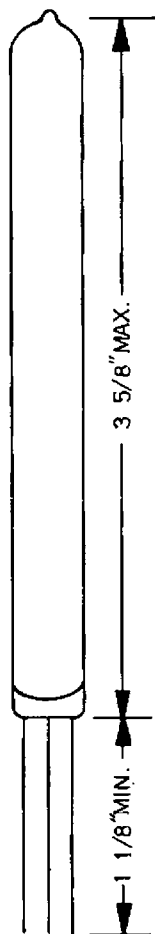
5806 HOUGH AVE., CLEVELAND, OHIO

SEPTEMBER 1949

DATA SHEET 17

TENTATIVE

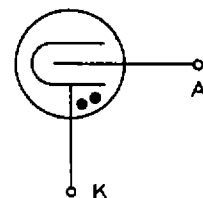
3/8" MAX.

**1B86 THYRODE**

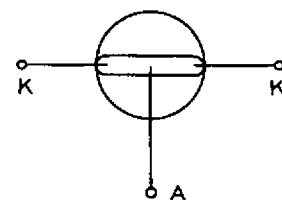
The 1B86 thyrode is a small, self-quenched, glass counter tube for gamma radiation. Low operating voltage provides economic battery operation in uranium prospecting instruments and pocket detectors. The long active length provides output pulses comparable to those from larger tubes.

The 1B86 is sensitive to very high energy beta rays, to all gamma rays, and to cosmic rays. It is not sensitive to ultra violet or visible light.

The 1B86 may be mounted in any position. It is usually clamped around the diameter with the leads soldered to a terminal board. Sockets designed for flat press subminiature tubes may be used where desirable.



SYMBOL



BASE VIEW

CHARACTERISTICS

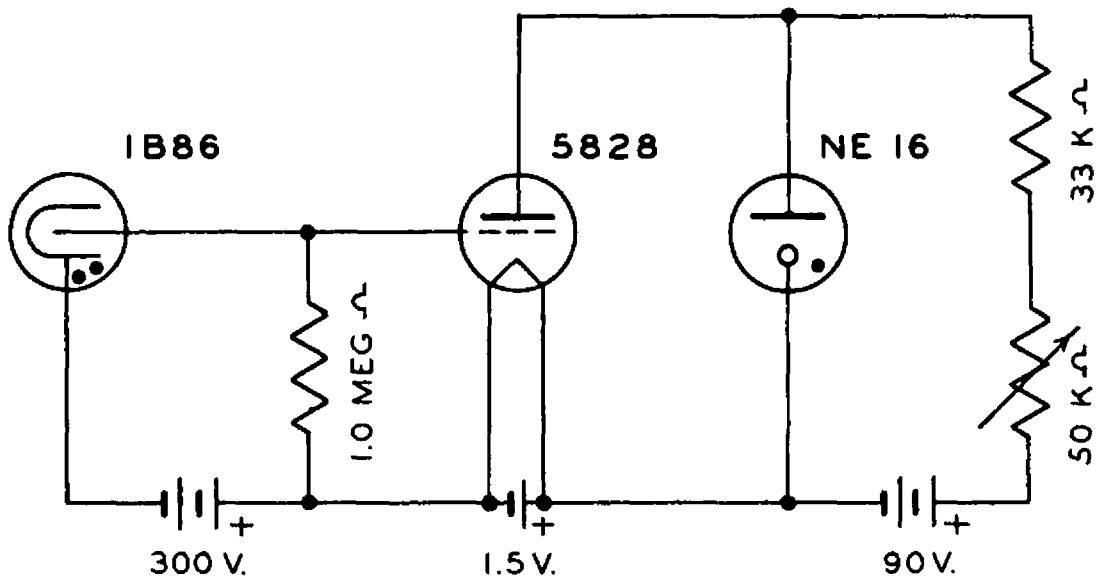
THRESHOLD VOLTAGE*	275	VOLTS
PLATEAU LENGTH*	(MIN.) 50	VOLTS
PLATEAU SLOPE*	30 %/50	VOLTS
RECOVERY TIME	100	μSEC
BACKGROUND.... (V ₀ = 300V.)	30	C/M
LIFE TEST END POINT; SLOPE	30 %/25	VOLTS
LIFE	5x10 ⁷	COUNTS
ELECTRODE CAPACITANCE	1	μμF
ANODE ACTIVE LENGTH	2.5	INCHES
WALL THICKNESS	200	MG/CM ²

RATINGS

OPERATING VOLTAGE	300	VOLTS
AMBIENT TEMPERATURE..... (MIN)	-40°	C
..... (MAX)	100°	C
HUMIDITY..... (MAX)	100	%

*NEW TUBE

TYPICAL CIRCUIT



TUBE CHARACTERISTICS

