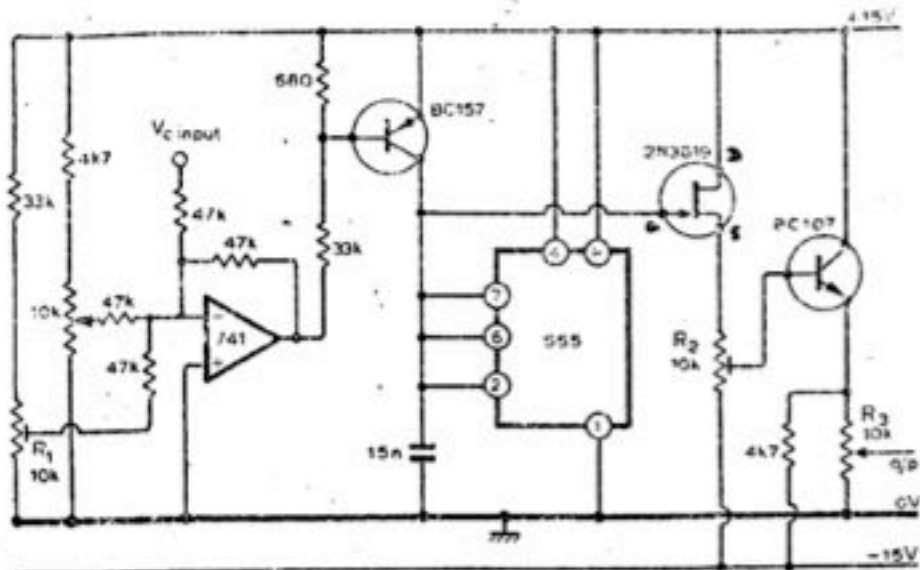


Voltage-controlled ramp generator



By using the 555 timer as an astable multivibrator with the charge current supplied by a transistor, a wide frequency range can be covered. With the values shown, the range is greater than 0.2Hz to 20kHz. Potentiometer R_1 sets the lowest frequency, R_2 sets the

average output to zero volts, and R_3 sets the output level. The voltage/frequency relationship is logarithmic which makes the oscillator suitable for use in sound synthesizers.

J. L. Brice,
Fulwood,
Preston.