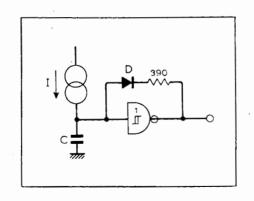
## Simple current controlled pulse generator

This simple circuit generates pulses to operate t.t.l. at a variable rate between about 100Hz and several MHz. The diode should be a germanium type of low capacitance and must be able to carry current I continuously. The capacitor can be any value from picofarads to millifarads. Suitable inverters are SN7413/14/132 or the Schottky clamped variety for higher speed. Care



must be taken in choosing the current to avoid damaging the inverter and diode. The control current can be obtained by a resistor to +5V. There is an internal resistor of about 4k2 connected to +5V on the input of the inverter, which gives a minimum pulse rate for any value of C. For further information about such oscillators see T.I. Applications report B81.

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