NOTE:
IC1 IS 7400
IC2 IS 7490
IC3 IS 7442
IC4 IS 4007
Q1&Q2 ARE BC108

Musical Tone Generator

P. Reynolds

This circuit provides a means of generating a series of up to ten musical notes.

The 7400 oscillator produces pulses at about 1 second intervals. These pulses, after being buffered are fed to a decade counter which produces a BCD output. The output is fed to the 7442 which produces a decimal output. Each output is taken to a preset forming a potential divider. The VCO senses the voltage at point 'a' and changes the frequency of the output tone. Careful adjustment of the presets can give a reasonable range of notes. The length of each note as well as the time between notes can be varied by changing the timing components in the 7400 oscillator.