

NW μ

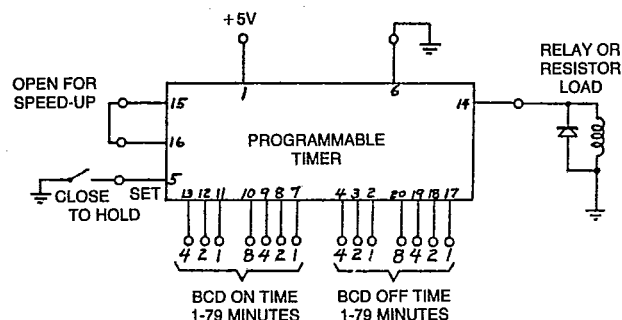
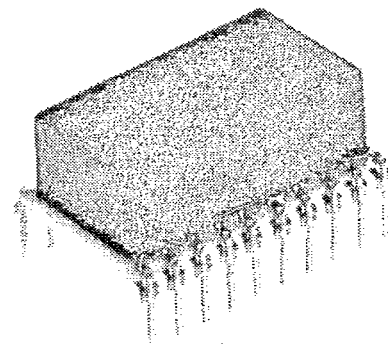
PROGRAMMABLE TIMER

3-035

DESCRIPTION

This timing unit provides independently programmable ON and OFF times in one minute increments for up to a 2½ hour period. A 7-bit BCD code is used to program up to 79 minutes of ON time. Another 7-bit BCD code programs up to 79 minutes of OFF time. The cycle repeats automatically, but a SET input is available for restarting the cycle at beginning of the ON time. This input, which requires a ground level to activate, can also be used to synchronize the cycle after power is applied.

During the ON time, the output provides a +5 volt level capable of supplying up to 100 ma. to ground. The output is open during the OFF time. Basic timing accuracy is $\pm 5\%$, but $\pm 1\%$ and crystal versions are available. A connection is provided for operating the timer in a speed-up mode for verification of ON and OFF times.



SPECIFICATIONS

ON Time: 1 to 79 minutes

OFF Time: 1 to 79 minutes

Accuracy: $\pm 5\%$ ($\pm 1\%$ and crystal options)

BCD Inputs: 0V (0) and +5V (1) levels at 1 μ a. maximum; inputs must not float.

SET Input: Open ckt or +5V for normal operation; 0V at .5 ma. holds at start of the ON time.

Speed-up Jumper: Connected for normal operation; open for X1000 speed-up.

Output: +4.5 Volts minimum at 100 ma. load during ON time with supply at +5.0V.

Less than 1 μ a. leakage during OFF time.

Supply Voltage: +5 Volts $\pm 5\%$ at 10 ma. typical, plus load current.

Operating Temperature Range: 0°C to +70°C

Size: .6" X 1" X .3" height; 20 pin dual-in-line

NORTHWEST MICROCIRCUITS

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