+5V

16

VDD

14
Q   3   5 MINUTE
                               TIMEOUT

4148

RESET   12
                    R

CD4060B   11
                    01   4.7M
                                Rs

                    10   330K   Freq.
                    00   Rt   Adj.
                                       100K

                    9   Ct
                    00

                    VSS   0.047uF

                    8   TEST POINT
                               Freq   27.3Hz

AVERAGE CURRENT DRAIN = 30uA

$$\text{Freq.} = \frac{1}{2.2 R_t C_t}$$

$$R_s = 10 R_t$$

$$T\ OUT = 2.2 R_t C_t 2\ \times\ (N-1)$$

N = COUNTER STAGE

DRAWN BY: DAVE JOHNSON

5 MINUTE WATCHDOG TIMER

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