+9V

+9V

1.8M
R1

22M
R4

0.01uF
C1

PN2907

7.6V

Q2

+9V

Q1

PN2222

10M
R2

100K

R5

4.7K
R3

4   14

R VDD

6   S   Q   1

CD4013B

A1

D CLK

5   3

11 CLK   Q   13

OUT

1Hz

12

10 R A1 D   9

8   S VSS 7

AVERAGE CURRENT = 2uA

MICROPOWER OSCILLATOR

THIS CIRCUIT SHOULD OPERATE FROM 3V TO 15V

SOME PEOPLE HAVE INDICATED THAT THIS
OSCILLATOR DOES NOT ALWAYS START

DESIGNED BY DAVE JOHNSON

DISCOVERCIRCUITS.COM

DRAWN BY: DAVE JOHNSON

Title		
MICROPOWER OSCILLATOR		
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