

Use the Miller Solarengine circuit to make useful bursts of energy for your motor or device!

NPN - 2n2222 or 2n3904 transistor

C1 - 2200 μ F or larger electrolytic power storage capacitor

C2 - 1 μ F to 47 μ F discharge duration time capacitor

D1 - 1N914-style signal diode (1N914)

Connect your load (motor/LED/etc) to the pads "Mtr -" and "Mtr +"

Performance Tips:

Bigger C1 = more power stored, but means longer recharge time

Bigger C2 = more time MSE stays on, but needs more time to recharge

Low 1381 trigger (C=2.2V) will activate MSE sooner, but with less vigor than a 1381-U (4.8V)

Recommended default settings (please experiment!):

Short bursts / quick recharge (~3sec): C1=4700 μ F, C2=4.7 μ F, 1381E

Long bursts / slow recharge (~2min): C1=0.33F, C2=22 μ F, 1381G

