

## BQ2032 V2

Ideas for microcontroller based battery push button project, V2:

Functional Operation Sequence 1:

- a. Push On = turn on power, continuous
- b. Push again = Toggle Power slowly, at 50% duty cycle.
- c. Push again = Toggle Power faster, at 50% duty cycle.
- d. Push again = turn off power.

Functional Operation Sequence 2:

- a. Press and hold on (at least 1 second) = turn on power, slowly sweep duty cycle.
- b. Push again = sweep rate to medium.
- c. Push again = sweep rate fast.
- d. Push again = Turn off power.

Applications:

- a. Wearable electronics
  - a. Glasses,
  - b. Necklace
  - c. Wristband
  - d. Helmet
  - e. Light up pins.

In a future design, consider having more outputs (up to 3 instead of 1) to enable RGB LED color mixing.

Another alternative might be to include an audio output line. The microcontroller could then drive a piezo sounder.