

1.4.2

$$I_{avg} = (1-n) \cdot I_{off} + n \cdot I_{on}$$

$$40mA = (1-n) \cdot 100\mu A + n \cdot 200mA$$

$$40000\mu A = 100\mu A - 100n\mu A + 200000n\mu A$$

$$39900\mu A = 199900n\mu A$$

$$n = 0.199 \approx 0.2$$

$$n = 0.2$$

1.5

Backup battery

